XYCOM AUTOMATION / PRO-FACE AMERICA

product datasheet

Xycom Automation, Inc. is a subsidiary of Pro-face America, Inc.

1401 Heavy Duty Industrial "Node" PC without Integrated Display

DS-1401000(B)

AMD Geode™

FEATURES

- Preloaded with MS-DOS® operating system; option to load Windows® NT, Windows® 2000, or Windows® CE
- PC/104 I/O expansion (up to two modules)
- 300 MHz AMD Geode GX1 CPU with PCI EIDE and video controllers
- Up to 256 MB of DRAM available (128 MB standard)
- 20 GB (minimum) IDE hard drive
- Optional 128 MB or 256 MB CompactFlash™ drives, or 3 GB solid state hard drive
- Built-in PCI 10/100 BaseT Ethernet
- Video and IDE hard drive controllers
- Two serial, one parallel, VGA, PS/2 keyboard, and mouse ports
- 1.44 MB floppy drive option
- Optional 24 VDC power supply
- UL listed for hazardous locations: Class I, Division 2, Groups A, B, C, D; Temp. Code: T4A
- Two USB ports (1.1 compliant)
- Externally-accessible CompactFlash site
- 2 year warranty

Xycom Automation's 1401 Industrial mini-PCs are designed to integrate sophisticated computing capabilities into your system without taking up a lot of room, money, or time. Providing a range of computing options in a rugged, low-profile enclosure for easy shelf- or wall-mounting, the 1401 is easily configured to run a wide variety of applications.

Fits Your Needs

You can configure and reconfigure Xycom Automation's Industrial PCs for nearly any application through a wide variety of standard technologies. Our Industrial PCs make it easy for end users and vendors to use cost-effective industry-standard components, storage options, and PC/104 expansion for application specific requirements.

Connectivity

A built-in 10/100 BaseT Ethernet allows you to connect the 1401 to a network at startup with little effort.

Drive Options

The IDE hard drive on 1401 systems loaded with MS-DOS® can be replaced with a CompactFlash drive (128 MB or 256 MB) for applications that do not permit the use of rotating media. The hard drive on 1401 IPCs with all operating systems loaded may also be changed to a 3 GB solid state hard drive.

Windows NT, Windows 2000, or Windows CE

All 1401 systems may be ordered with Windows NT, Windows 2000, or Windows CE OS. Unless otherwise specified, all 1401s are shipped preloaded with MS-DOS®.

Meets High Standards

To survive the plant floor, our 1401 industrial mini-PCs meet FCC, UL, cUL, and European CE mark requirements. Xycom Automation also leads the industry in reliability, service, and support with an optional five year warranty unmatched in the industry.

24 Volt DC Power Supply

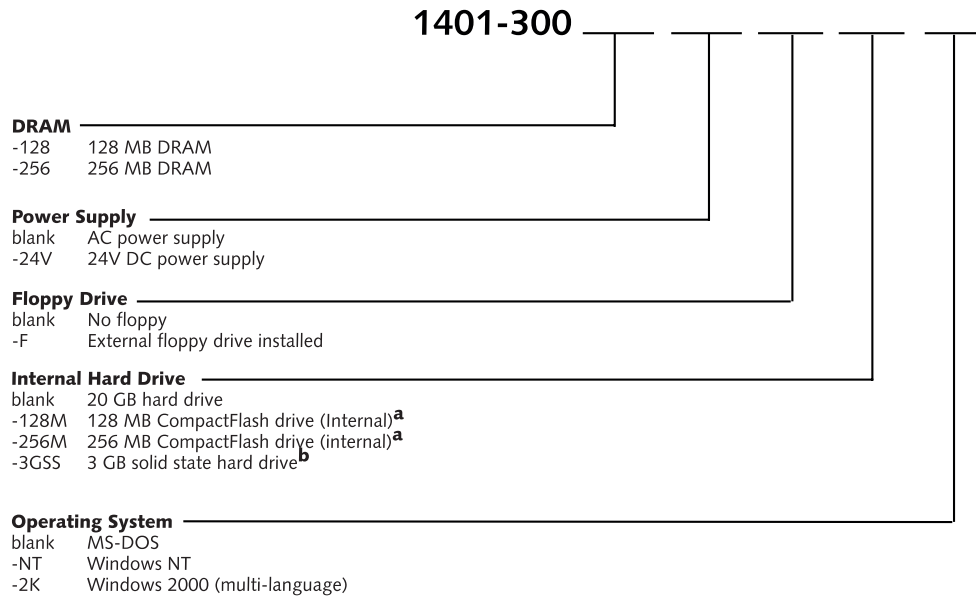1401 systems may be ordered configured with 24 Volt DC power supply.

XYCOM™
a PRO-FACE America Company

PRODUCT AND MOUNTING DIMENSIONS

1401 Mounting

Mounting Plate Outline

1401 Unit Dimensions

Model	1401
Height	7.6" (193.0 mm)
Width	10.7" (271.8 mm)
Depth	3.6" (91.4 mm)
Weight	7.5 lbs. (3.4 kg)

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz[a]	0.006" peak to peak displacement 1.0g maximum acceleration	0.015" peak to peak displacement 2.5g maximum acceleration

[a] **These values are with solid state hard drives and** not rotating media

Electrical

Power Supply	40 Watt power
AC power	100-240 V AC, auto-ranging, 50-60 Hz, 1A (maximum), 22 W nominal [b]
24V DC power (option)	18 - 30 V DC, 24V nominal, 3.6A (maximum), 22 W nominal [b]
Available Expansion power	+5V@2A +12V@1A -12V@0.4A

[b] **Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.**

Regulatory Compliance

C€
- EN 55022
- EN 61000-6-2
- EN 61000-3-2, Class A
- EN 61000-3-3
- IEC 60950-1

FCC
- 47 CFR, Part 15, Class A
- ICES-003, Class A

Safety Agency Approvals:

- UL 508 Listed
- UL 1604 Listed [a]

- cUL CSA-C22.2, #142 Listed
- cUL CSA-C22.2, #213 Listed [a]

[a] Class I Division 2, Groups A, B, C, D; Temp. Code: T4A

C€ (UL) •(UL)

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

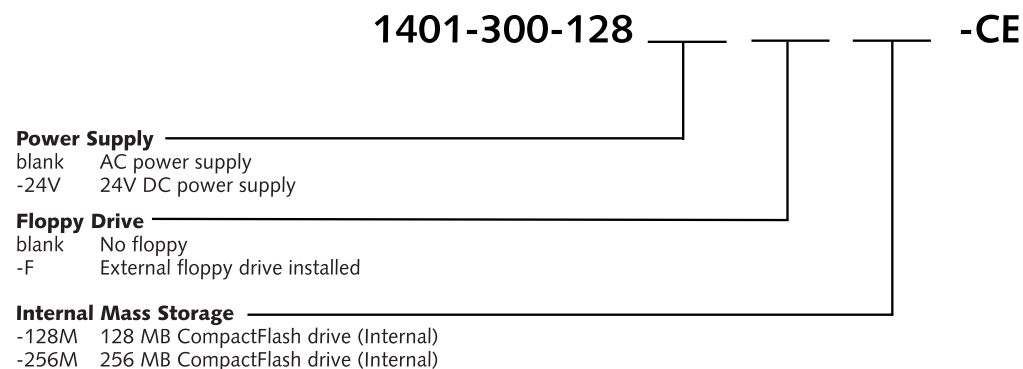## 1401 Standard IPC Configuration

Order Number	Description
1401-300-128	1401 heavy-duty industrial node PC with a 5x86 AMD Geode GX1 CPU, 128 MB DRAM, 20.0 GB (minimum) hard drive, and MS-DOS operating system

1401-300 ____ ____ ____ ____ ____

DRAM
-128   128 MB DRAM
-256   256 MB DRAM

Power Supply
blank   AC power supply
-24V   24V DC power supply

Floppy Drive
blank   No floppy
-F   External floppy drive installed

Internal Hard Drive
blank   20 GB hard drive
-128M   128 MB CompactFlash drive (Internal)[a]
-256M   256 MB CompactFlash drive (internal)[a]
-3GSS   3 GB solid state hard drive[b]

Operating System
blank   MS-DOS
-NT   Windows NT
-2K   Windows 2000 (multi-language)

[a]Available for MS-DOS only   [b]Not recommended when applications are storing data

1401 Windows CE-Based IPC Configuration

Order Number	Description
1401-300-128-128M-CE	1401 heavy-duty industrial node PC with a 5x86 AMD Geode GX1 CPU, 128 MB DRAM, 128 MB CompactFlash™, and Windows CE 4.2 operating system

1401-300-128 ____ ____ ____ **-CE**

Power Supply
blank   AC power supply
-24V   24V DC power supply

Floppy Drive
blank   No floppy
-F   External floppy drive installed

Internal Mass Storage
-128M   128 MB CompactFlash drive (Internal)
-256M   256 MB CompactFlash drive (Internal)

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Customer Support Hotline:
734-944-0482

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1341 Fanless, Diskless Industrial "Node" PC
without Integrated Display

DS-134100(C)

CE UL cUL Ro

The newest Xycom industrial PC from Pro-face America is designed for the harsh environments required for plant floor use. This 1341 addresses the growing concern for reliability of rotating hard drives in these environments. Utilizing solid state media to store the operating system and your application, higher levels of reliability are easily obtained. In addition there are no system fans to hinder cooling when air flow is restricted by dust and debris, often found in factory environments.

FEATURES

- Intel® Celeron® M 1.3 GHz, 512K cache, 400 MHz system bus
- 4X AGP video controller with up to 32 MB video memory (shared with system memory)
- 512 MB DRAM
- 4 GB CompactFlash™
- 10/100 Base-T Ethernet port
- 4 USB 2.0 compliant ports
- Audio port
- 4 RS-232 Serial ports
- Video port
- Parallel port
- PS/2 mouse and keyboard ports
- 2 externally accessible PCMCIA ports
- One half-length PCI expansion slot
- 9-30 Volt regulated DC input *(AC power supply sold separately)*
- UL and cUL recognized
- CE approved
- RoHS Directive-conforming
- Preloaded with Windows® XP Professional (Windows 2000 Professional optional)
- 2-year warranty included

Higher Performance, Lower Power

The 1341 utilizes an Intel mobile Celeron M processor while utilizing nearly half the wattage of many Pentium 4 class PCs. The Celeron M 1.3 GHz with 512 K Cache running at 400 MHz system bus provides enough processing power for many simple factory automation applications. The custom designed housing, which acts as a heatsink, coupled with the lower power usage allows the 1341 to operate in environments up to 50°C without the need for a system fan or additional cooling devices.

Full Featured in a Compact Package

The 1341 offers 4 RS-232 serial ports, 4 USB 2.0 compliant ports, 10/100 Ethernet, parallel, video, PS/2 mouse and keyboard ports, and an audio port. Even more options are available with the half-length PCI expansion slot and the two PCMCIA card slots. There also is a CompactFlash™ Type I/II slot that is utilized for the system memory to store the operating system and application(s). All this is accomplished in a compact package that is about the size of a standard package of printer paper.

Superior Video Performance

The on-board 4X AGP graphics controller defaults to 4 MB system RAM to allow resolutions up to 1280 x 1024. In addition the 1341 automatically shares up to 32 MB system RAM to allow full 32-bit color depth and 3D rendering.

Meets High Standards

To survive on the plant floor the 1341 meets FCC, UL, cUL and European CE mark requirements for industrial automation equipment. Xycom brand Industrial PCs lead the industry in reliability, service, and support with an optional five year warranty available.
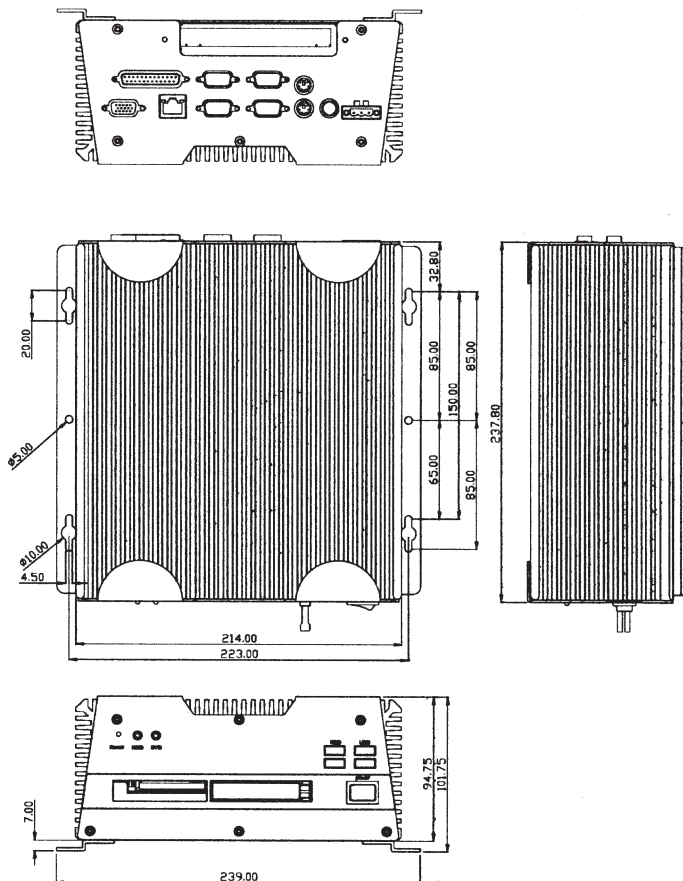
Pro-face®
XYCOM™
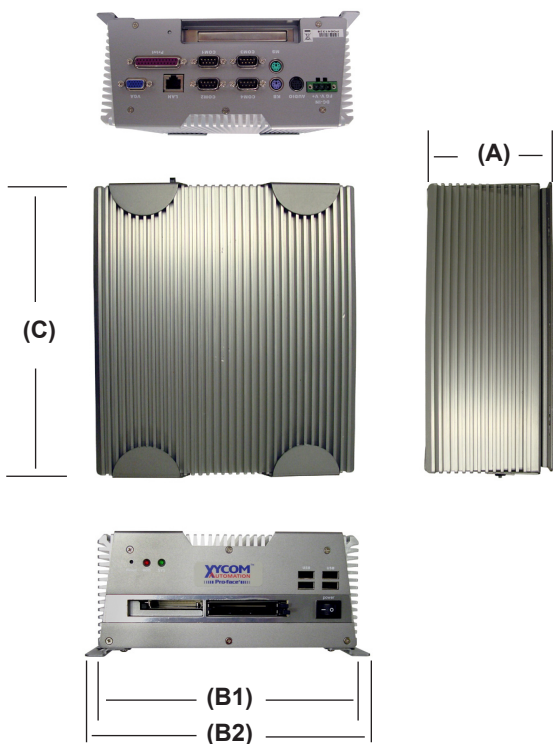
1341 Unit Dimensions

Model	1341
Height (A)	4.10" (104.14 mm)
Width (B1)	8.42" (214.0 mm)
Width (B2)	9.40" (239.0 mm)
Length (C)	9.50" (241.3 mm)
Weight	12.5" (5.7kg)

1341 Unit Configurations

Model	1341
Processors	Intel® Celeron® M 1.3 GHz
Preloaded OS	Windows XP Professional or Windows 2000 Professional
Expansion	One half-length PCI expansion slot

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration

Electrical

Internal Power Supply	9-30 VDC (Regulated Input), 4.0 Amp, 30 Watts nominal power [†] (33 Watts nominal power when powered by optional external AC power supply (1341-PWR)) [†]
Optional External AC Power Supply	(1341-PWR) 100-240 VAC, 0.4 Amps, 50-60 Hz

[†] *Nominal power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.*

Compliance

Regulatory Compliance

CE
- EN55022, Class A
- EN61000‑6-2
- IEC60950-1
- EN61000-3-2, Class A
- EN61000-3-3

FCC
- 47 CFR, Part 15 Subpart B, Class A

RoHS Directive-conforming

Safety Agency Approvals

UL
- UL 60950-1 Recognized

CUL
- CSA-C22.2, 60950-1-03 Recognized

Product certification documentation available at: www.pro-faceamerica.com/certifications

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number	Description
1341-1300-512-4GB-XP	1341 Industrial "Node" PC with Intel® Celeron® M 1.3 GHz, 512K cache, 400 MHz system bus, 4 GB CompactFlash, Preloaded with Windows® XP Professional (Windows 2000 Professional optional)

<div align="center">

1341 - 1300 - 512 - ___ ___

</div>

Storage Media
4GB   4 GB CompactFlash

Operating System
-XP   Windows XP Professional
-2K   Windows 2000 Professional

1341 Accessories

1341-PWR 100-240 Volt AC, 50-60Hz, 0.4 Amp input, regulated 12 VDC output power supply for use with the 1341
(Connector for direct connection to the 1341 included)

<div align="center">

Warranty Information
The 1341 series carries a
two-year parts & labor
warranty.

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Pro-face America
Phone: 734.429.4971
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Customer Service Hotline: 734.944.0482

For more information

ACCESS www.profaceamerica.com

Pro-face

1506 Heavy-Duty Industrial PC without Integrated Display

DS-140411(G)

Xycom Automation's newest generation of industrial PCs are designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 200,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- AGP graphics with base 4 MB system RAM
  - Automatically shares up to 32 MB with system RAM
- Intel® Pentium® III options up to 1.26GHz
- Up to 512 MB DRAM (256 MB standard)
- 10/100 BaseT Ethernet port
- Parallel, RS-232 and RS-232 or RS485, PS/2 keyboard and mouse ports
- USB ports (1.1 compliant)
- Four available expansion slots:
  - Three ¾-length (1 PCI, 1 ISA, and 1 either ISA or PCI)
  - One ½-length PCI
- DOC 2000 socket
- Floppy drive and CD-ROM drive (with optional CD-R/W/DVD-Read, and DVD-R/W upgrade options)
- Easily removable 40 GB hard drive
- Secondary IDE Drive options (choice of one):
  - Dual hard drives
  - Externally accessible CompactFlash™ options up to 512MB
- UL Listed for hazardous locations: Class I Division 2, Groups A, B, C, D (not available with CDW or DVD drive options); Temp. Code T5
- Pre-loaded with MS-DOS®, Windows® NT, Windows® 2000 (with multi-language support for 2000 only), or Windows® XP
- 100-240 V AC power supply
- 2-year warranty included

Superior Video Performance

The on-board AGP graphics controller defaults to 4 MB system RAM which allows full color resolution up to 1280 x 1024 resolution. In addition, the 1506 will automatically share up to 32 MB system RAM to allow full 32-bit color depth and fast 3D rendering and graphics performance.

Higher Performance

With up to 1.26 GHz Pentium III processors available, the 1506 can drive the most demanding applications. The 1506 ships standard with a 1 GHz Socket 370 Pentium III with 256K cache running at 133 MHz bus.

Optional 1.26GHz with 512K cache, both running at 133 MHz bus is an available option.

Fits Your Needs

The 1506 can be configured many different ways. With four available expansion slots – three ¾-length (1 PCI, 1 ISA, and 1 ISA or PCI), and one ½-length PCI, many cost effective, industry standard options are easily integrated. The optional dual hard drive, drives, solid state drive, or externally accessible CompactFlash can provide the storage solution you require. Additionally the CD-ROM can be upgraded to CD-R/W/DVD-Read, or DVD-R/W, so that even more storage and/or backup options are

available.

Meets High Standards

To survive on the plant floor, the 1506 meets FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation leads the industry in reliability, service, and support with an optional five year warranty available.

SERVICEABILITY

With the cover removed expansion cards are easily installed in the 1506 without cumbersome cables to contend with.

MOUNTING OPTIONS

Shelf Mounting

Wall Mounting

EASILY REPLACEABLE HARD DRIVE

The 1506 has incorporated an easy access hard drive mount. Simply remove 2 screws and extract the hard drive. Remove the metal bracket and retention spring, attach it to the new hard drive and install your replacement.

SECONDARY DRIVE OPTIONS

The 1506 has several options for the secondary IDE port on the CPU. The hard drive can be replaced with a dual hard drive unit. If solid state storage media is desired than an externally accessible Type I or Type II CompactFlash™ option is available. Internal Solid State drives are also available.
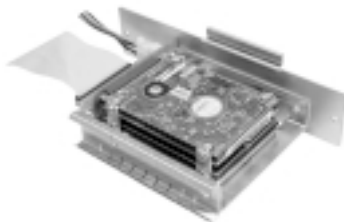
Dual 2.5" Hard Drives

Externally Accessible CompactFlash™

PRODUCT MOUNTING AND DIMENSIONS

1506 Unit Dimensions

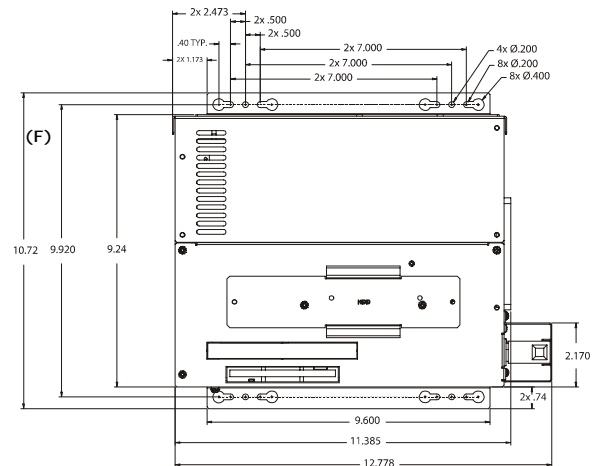| Model	1506
Processors	Intel® Celeron, Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, Windows® 2000, XP
Expansion	One ISA, two PCI, one shared (ISA or PCI)

Shelf Mounting (E)   6.91" (175.5 mm)
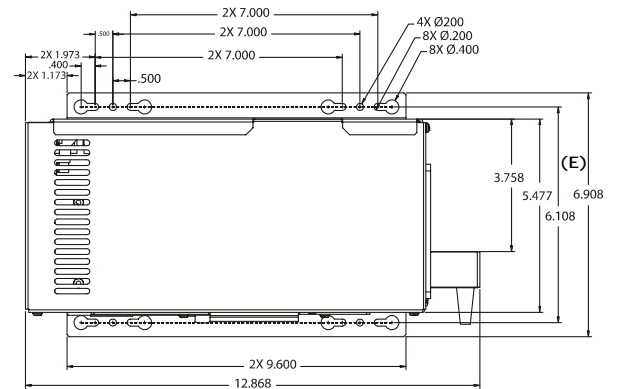
Wall Mounting (F)   10.72" (272.3 mm)

Model	1506
Height (A)	9.24" (234.7 mm)
Width (B)	11.39" (289.3 mm)
Width (C)	12.78" (324.6 mm)
Depth (D)	5.48" (139.2 mm)
Weight	13 lbs (7.2 kg)

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

Power Supply	150 watt AC	
AC Power	100-120/200 - 240 V AC, switchable, 50/60 Hz, 2.5 Amp (maximum), 84 W nominal [c]	
Available Expansion Slot Power	38 watts maximum	+5@8A +3.3@5A +12@1.75A -12@200mA [d] -5@200mA [d]

[c] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.
[d] -5V and -12V cannot exceed 2 watts.

PRODUCT SPECIFICATIONS AND RATINGS (CONT'D)

Compliance

Regulatory Compliance:

CE
- EN 55022: Class A
- EN 61000-6-2
- EN61000-3-2, CLass A
- EN61000-3-3
- IEC 60950-1

FCC
- 47 CFR, Part 15, Class A

Safety Agency Approvals:
- UL 508 Listed
- UL 1604 Listed [a,b]
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a,b]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T5
[b] DCW & DVD Drives are not supported for hazardous locations.

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number	Description
1506-1000-256-CDF-2K	1506 Industrial "Node" PC, Socket 370 Intel® Pentium III 1 GHz CPU (256K Cache, 133 MHz bus), 256 MB DRAM, 40 GB minimum Hard Drive, Rear Access CD-ROM and Floppy, Windows 2000, On-board 10/100 BaseT Ethernet and USB, three 3/4-length expansion slots (1 PCI, 1 ISA, and 1 ISA or PCI) and one 1/2-length PCI expansion slot.

1506 - ☐ ☐ ☐ ☐ ☐ ☐

CPU
| 1000 | Pentium III 1.0 GHz, 256k Cache, 133 MHz Bus |
| 1260 | Pentium III 1.26 GHz, 512k Cache, 133 MHz Bus |

DRAM
| -256 | 256 MB DRAM |
| -512 | 512 MB DRAM |

Internal Hard Drive
Blank	Internal 3.5" 40 GB minimum EIDE hard drive
-80G	80 GB internal EIDE hard drive
-ND	No internal hard drive[a]
-DHD	Dual 2.5" 20 GB minimum hard drives
-4GSS	4 GB solid state hard drive[b]

Rotating Media Devices
-F	Rear Access Floppy only
-CDF	Rear Access Floppy and CD-ROM
-CDWDVDF	Rear Access Floppy, CD-R/W with DVD read-only[c f g]
-DVDWF	Rear Access Floppy and Read/Write DVD-ROM Drive[c f g]

Externally Accessible IDE [b]
blank	Nothing Installed
-CF	Externally Accessible Type I/II CompactFlash site
-128CF	Externally Accessible Type I/II CompactFlash site w/128 MB
-256CF	Externally Accessible Type I/II CompactFlash site w/256 MB
-512CF	Externally Accessible Type I/II CompactFlash site w/512 MB

Operating System
Blank	MS-DOS
-NT	Windows NT [c g]
-2K	Windows 2000 (multi-language) [c]
-XP	Pre-activated Windows XP [c]

[a] 128CF, 256CF, or 512CF (with DOS) option must be chosen when selecting the -ND option [b] Not recommended when applications are storing data [c] When ordering -CDWF, -DVDF, -DVDWF options with MS-DOS, drivers will not be loaded and devices will not function properly (requires Windows). [d] Externally accessible options are not available when choosing -DHD option. [e] Windows operating systems are only available when Internal Hard Drive or -DHD options are chosen. [f] Hazardous locations approvals do not apply when configured with a DVD or DVD-R/W drive option. [g] CDW, DVD, and DVDW options are not available with Windows NT.

Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

Warranty Information
The 1506 series carries a two-year parts & labor warranty.

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Pro-face®
XYCOM™

Pro-face

1546 Heavy-Duty Industrial PC
without Integrated Display

DS-154600(C)

AC100/240V

1546

2-year warranty

4X AGP graphics

Models: 1546-1300
CPU: Intel Celeron M 1.3GHz

Windows® 2000   Windows® XP

Pro-face® XYCOM™

CE (UL) c(UL)

FEATURES

- Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus (optional Pentium® M 2.0 GHz, 2M cache, 533 MHz system bus)
- Up to 2 GB DRAM (512 MB standard)
- 80 GB minimum Serial ATA hard drive (optional dual hard drives)
- 4X AGP graphics with 32 MB video memory (shared with system memory)
- Four available expansion slots:
  - One (8.0" max.) PCI expansion slot;
  - Two (9.0" max.) PCI expansion slots;
  - One (9.0" max.) PCI or ISA expansion slot
- 10/100, and 10/100/1000 BaseT Ethernet
- 4 USB 2.0 compliant ports (one additional 1.1 compliant port on front of KPM units)
- Three Serial Ports:
  - 2 RS-232;
  - 1 Selectable RS-232/422/485
- Rear accessible Type I/II CompactFlash™ socket
- CD-ROM (optional CD-R/W with DVD-read-only, DVD-R/W, and floppy)
- UL, cUL, CE approvals
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G
- Windows® XP or Windows 2000 operating systems
- 100-240 VAC power supply
- 2-year warranty included

Pro-face America's newest generation of Xycom brand industrial PCs are designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 300,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

Higher Performance, Lower Power

The 1546 utilizes an Intel mobile processor providing superior processing power while utilizing half the wattage of a comparable Pentium 4 processor. The optional Pentium M 2.0 GHz processor (2 M Cache & 533 MHz system bus) outperforms a desktop Pentium 4, 2.4 GHz (512 K Cache & 533 MHz bus) while utilizing less than half the wattage. The increased processing power with less heat generation makes the 1546 ideal for most factory automation applications requiring a NEMA enclosure. Less wattage input into the system results in less temperature rise in the enclosure. With less temperature rise the maximum ambi-ent operating temperature is more easily maintained, possibly without the need for expensive enclosure cooling devices.

Superior Video Performance

The on-board 4X AGP graphics controller defaults to 4 MB system RAM to allow resolutions up to 1280 x 1024. In addition the 1546 automatically shares up to 32 MB system RAM to allow full 32-bit color depth and fast 3D rendering.

Fits Your Needs

The 1546 can be configured many different ways. With four available expansion slots many cost effective, industry standard op-tions are easily integrated. The optional dual hard drive, externally accessible

CompactFlash, or RAID-enabled configuration provides the storage solution you require. Additionally the CD-ROM can be upgraded to CD-R/W or DVD-R/W providing even more storage and backup options.

Meets High Standards

To survive on the plant floor the 1546 meets FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation Industrial PCs lead the industry in reliability, service, and support with an optional five year warranty available.

With the cover removed expansion cards are easily installed in the 1546 without cumbersome cables to contend with.

Shelf Mounting

Wall Mounting

The 1546 unit has incorporated a simple to access hard drive mount. Simply loosen 2 captive screws and extract the hard drive. No cables to install or connect. Simply plug in the new drive. Optional dual hard drives or RAID-enabled configurations are also available.

The 1546 offers several data storage options. The standard unit contains a single Serial ATA hard drive. Dual hard drives are optional, as is a RAID-enabled configuration. Also, the externally accessible TypeI/II CompactFlash can be ordered with the operating system pre-loaded for a solid state alternative. The 1546 offers a read-only CD-ROM, a CD-R/W with DVD-Read capability, a DVD-R/W, or a floppy for your choice of removable media drives. In addition, the 4 USB 2.0 ports can be utilized to add many commercially available external devices.

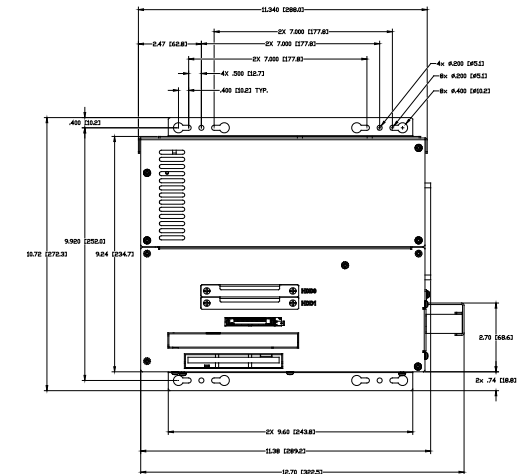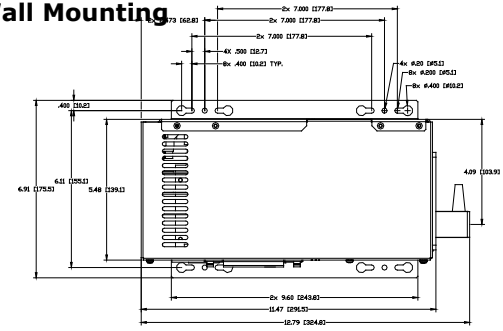**Externally Accessible Compact-Flash™**

1546 Unit Dimensions

Model	1546
Height (A)	9.24" (234.7 mm)
Width (B)	11.47" (291.3 mm)
Width (C)	12.74" (324.9 mm)
Depth (D)	5.75" (146.1 mm)
Weight	13 lbs (7.2 kg)
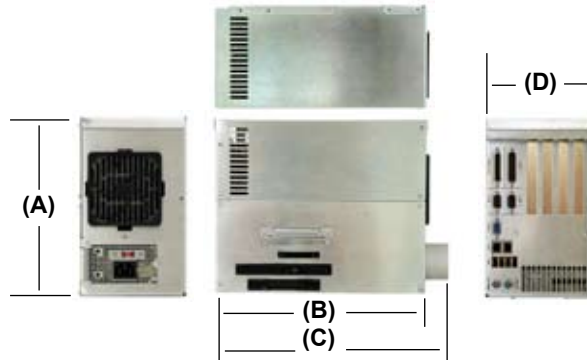
Model	1546
Processors	Intel® Celeron® M 1.3 GHz or optional Pentium M
Preloaded OS	Windows® XP or Windows® 2000 (multi-language)
Expansion	One (8.0" max.) PCI, two (9.0" max.) PCI, and one (9.0" max.) PCI or ISA

Shelf Mounting

Wall Mounting

Environmental

	Operating	**Nonoperating**
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

Power Supply	250 Watt AC
AC Power	100-240 VAC, 50-60 Hz, 74 Watt nominal power [†]
Available Expansion Power	+3.3V 4.0A maximum +5V 4.0A maximum -5V 160mA maximum +12 3.0A maximum -12 240mA maximum

[†] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

Compliance

Regulatory Compliance:

CE
- EN 55022: Class A
- EN 61000-6-2
- EN61000-3-2, Class A
- EN61000-3-3
- IEC 60950-1

FCC
- 47 CFR, Part 15, Class A

CE (UL) c(UL)

Product certification documentation available at: www.xycom.com/certifications

Safety Agency Approvals:

UL
- UL 508 Listed
- UL 1604 Listed [a]

CUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T6

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number	Description
1546-1300-512-CD-XP	1546 Industrial "Node" PC, Intel® Celeron® M 1.3 GHz CPU (512K Cache, 400 MHz bus), 512 MB DRAM, 80 GB minimum Serial ATA Hard Drive, Rear Access Type I/II CompactFlash socket, Windows XP, On-board 10/100 and 10/100/1000 BaseT Ethernet and USB, one (8.0" max.) PCI, two (9.0" max.) PCI and one (9.0" max.) PCI or ISA expansion slots.

1546 - ___ ___ ___ ___ ___ ___ ___

CPU
1300   Celeron M 1.3 GHz, 512K Cache, 400 MHz bus
2000   Pentium M 2.0 GHz, 2M Cache, 533 MHz bus

DRAM
-512   512 MB DRAM
-1000   1 GB DRAM
-2000   2 GB DRAM

Internal Hard Drive
Blank   Internal 80 GB (min.) Serial ATA Hard Drive
-ND   No Internal Hard Drive [a]
-DHD   Dual Internal 80 GB (min.) Serial ATA Hard Drives

Rotating Media Drives
-CD   Rear Access CD-ROM
Blank   No Rear Access CD-ROM
-CDW   Rear Access CD-R/W & DVD-Read only [b]
-DVDW   Rear Access DVD-R/W Drive [b]

Floppy
Blank   No Floppy Installed [c]
-F   Rear Access Floppy Installed

Externally Accessible CompactFlash
Blank   Nothing Installed
-4GCF   4 GB CompactFlash Installed [d]

Operating System
-XP   Pre-Activated Windows XP Professional
-2K   Windows 2000 (multi-language)
-NOS   No Operating System loaded

Warranty Information
The 1546 series carries a two-year parts & labor warranty.

[a] 4GB CompactFlash option must be chosen when selecting the -ND option. [b] When ordering CDW or DVDW options and No Operating System all required drivers will not be loaded and devices will not function properly. [c] When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive. [d] When ordering CompactFlash and no internal hard drive the operating system will be loaded on the CompactFlash. This is not recommended when applications are storing data.

> Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

Pro-face America
Phone: 734.429.4971
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www.profaceamerica.com

Customer Service Hotline: 734.944.0482

For more informa-
ACCESS   www.profaceamerica.

Pro-face

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DS-154700(A)

1547 Heavy-Duty Industrial PC
without Integrated Display

CE UL c UL

Xycom Automation's newest generation of industrial PCs are designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 300,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus (optional Pentium® M 2.0 GHz, 2M cache, 533 MHz system bus)
- Up to 2 GB DRAM (512 MB standard)
- 40 GB minimum Serial ATA hard drive (optional dual hard drives)
- 4X AGP graphics with 32 MB video memory (shared with system memory)
- Four available full length expansion slots:
  - Three PCI expansion slots;
  - One PCI or ISA expansion slot
- 10/100, and 10/100/1000 Base-T Ethernet
- 4 USB 2.0 compliant ports (one additional 1.1 compliant port on front of KPM units)
- Three Serial Ports:
  - 2 RS-232;
  - 1 Selectable RS-232/422/485
- Rear accessible Type I/II CompactFlash™ socket
- CD-ROM (optional CD-R/W with DVD-read-only, DVD-R/W, and floppy)
- UL, cUL, CE approvals
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G
- Windows® XP or Windows 2000 operating systems
- 100-240 VAC power supply (optional 24 VDC)
- 2-year warranty included

Higher Performance, Lower Power

The 1547 utilizes an Intel mobile processor providing superior processing power while utilizing half the wattage of a comparable Pentium 4 processor. The optional Pentium M 2.0 GHz processor (2 M Cache & 533 MHz system bus) outperforms a desktop Pentium 4, 2.4 GHz (512 K Cache & 533 MHz bus) while utilizing less than half the wattage. The increased processing power with less heat generation makes the 1547 ideal for most factory automation applications requiring a NEMA enclosure. Less wattage input into the system results in less temperature rise in the enclosure. With less temperature rise the maximum ambient operating temperature is more

easily maintained, possibly without the need for expensive enclosure cooling devices.

Superior Video Performance

The on-board 4X AGP graphics controller defaults to 4 MB system RAM to allow resolutions up to 1280 x 1024. In addition the 1547 automatically shares up to 32 MB system RAM to allow full 32-bit color depth and fast 3D rendering.

Fits Your Needs

The 1547 can be configured many different ways. With four available expansion slots many cost effective, industry standard options are easily integrated. The optional dual hard drive,

externally accessible CompactFlash, or RAID-enabled configuration provides the storage solution you require. Additionally the CD-ROM can be upgraded to CD-R/W or DVD-R/W providing even more storage and backup options.

Meets High Standards

To survive on the plant floor the 1547 meets FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation Industrial PCs lead the industry in reliability, service, and support with an optional five year warranty available.

Pro-face® XYCOM™

SERVICEABILITY

With the cover removed expansion cards are easily installed in the 1547 without cumbersome cables to contend with.

MOUNTING OPTIONS

Shelf Mounting

Wall Mounting

EASILY REPLACEABLE HARD DRIVE

The 1547 unit has incorporated a simple to access hard drive mount. Simply loosen 2 captive screws and extract the hard drive. No cables to install or connect. Simply plug in the new drive. Optional dual hard drives or RAID-enabled configurations are also available.

STORAGE OPTIONS

The 1547 offers several data storage options. The standard unit contains a single Serial ATA hard drive. Dual hard drives are optional, as is a RAID-enabled configuration. Also, the externally accessible TypeI/II CompactFlash can be ordered with the operating system pre-loaded for a solid state alternative. The 1547 offers a read-only CD-ROM, a CD-R/W with DVD-Read capability, a DVD-R/W, or a floppy for your choice of removable media drives. In addition, the 4 USB 2.0 ports can be utilized to add many commercially available external devices.
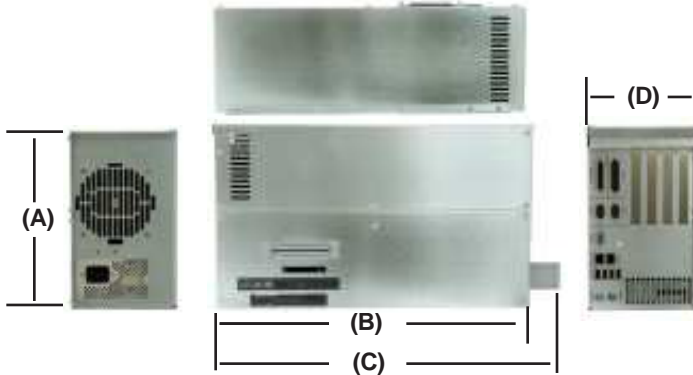
Externally Accessible CompactFlash™
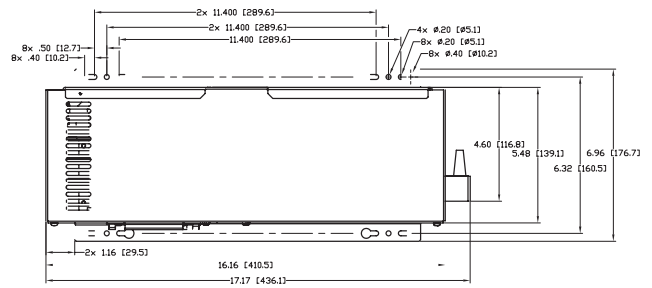
PRODUCT DIMENSIONS AND MOUNTING

1547 Unit Dimensions

Model	1547
Height (A)	9.18" (233.17 mm)
Width (B)	16.16" (410.46 mm)
Width (C)	17.18" (436.37 mm)
Depth (D)	5.48" (139.2 mm)
Weight	18 lbs (8.2 kg)

Shelf Mounting

Wall Mounting
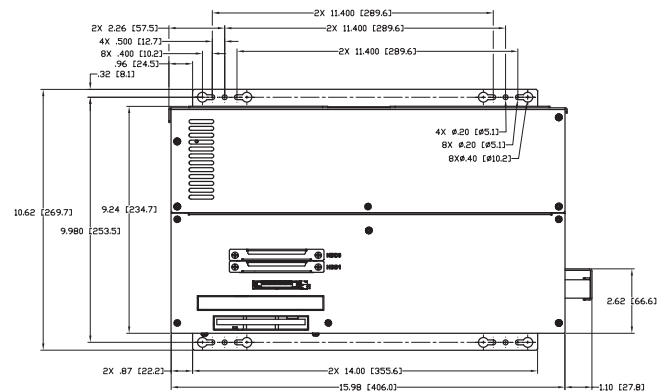
Model	1547
Processors	Intel® Celeron® M 1.3 GHz or optional Pentium M
Preloaded OS	Windows® XP or Windows® 2000 (multi-language)
Expansion	Three full length PCI and One full length PCI or ISA expansion slots

PRODUCT SPECIFICATIONS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

	AC	DC
Power Supply	250 Watt AC 100-240 VAC, 50-60 Hz, 74 Watt nominal power [†]	24 VDC 19-36 VDC, 54 Watts nominal power [†]
Available Expansion Power	+3.3V 4.0A maximum +5V 4.0A maximum -5V 160mA maximum +12 3.0A maximum -12 240mA maximum	+3.3V 4.0A maximum +5V 4.0A maximum -5V 160mA maximum +12 3.0A maximum -12 240mA maximum

[†] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

PRODUCT RATINGS

Compliance

Regulatory Compliance:

CE
- EN 55022: Class A
- EN 61000-6-2
- EN61000-3-2, Class A
- EN61000-3-3
- IEC 60950-1

FCC
- 47 CFR, Part 15, Class A

CE UL® c UL®

Product certification documentation available at: www.xycom.com/certifications

Safety Agency Approvals:

UL
- UL 508 Listed
- UL 1604 Listed [a]

CUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T6

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number	Description
1547-1300-512-CD-XP	1547 Industrial "Node" PC, Intel® Celeron® M 1.3 GHz CPU (512K Cache, 400 MHz bus), 512 MB DRAM, 40 GB minimum Serial ATA Hard Drive, Rear Access Type I/II CompactFlash socket, Windows XP, On-board 10/100 and 10/100/1000 BaseT Ethernet and USB, three PCI, and one PCI or ISA full length expansion slots.

1547 ___ - ___ ___ ___ ___ ___ ___ ___

CPU
1300   Celeron M 1.3 GHz, 512K Cache, 400 MHz bus
2000   Pentium M 2.0 GHz, 2M Cache, 533 MHz bus

DRAM
-512   512 MB DRAM
-1000   1 GB DRAM
-2000   2 GB DRAM

Power Supply
Blank   AC Power Supply
-24V   24 VDC Power Supply

Internal Hard Drive
Blank   Internal 40 GB (min.) Serial ATA Hard Drive
-ND   No Internal Hard Drive [a]
-DHD   Dual Internal 40 GB (min.) Serial ATA Hard Drives

Rotating Media Drives
-CD   Rear Access CD-ROM
Blank   No Rear Access CD-ROM
-CDW   Rear Access CD-R/W & DVD-Read only [b]
-DVDW Rear Access DVD-R/W Drive [b]

Floppy
Blank   No Floppy Installed [c]
-F   Rear Access Floppy Installed

Externally Accessible CompactFlash
Blank   Nothing Installed
-4GCF   4 GB CompactFlash Installed [d]

Operating System
-XP   Pre-Activated Windows XP Professional
-2K   Windows 2000 (multi-language)
-NOS   No Operating System loaded

Warranty Information
The 1547 series carries a two-year parts & labor warranty.

[a] 4GB CompactFlash option must be chosen when selecting the -ND option. [b] When ordering CDW or DVDW options and No Operating System all required drivers will not be loaded and devices will not function properly. [c] When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive. [d] When ordering CompactFlash and no internal hard drive the operating system will be loaded on the CompactFlash. This is not recommended when applications are storing data.

Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

XYCOM AUTOMATION / PRO-FACE AMERICA

product datasheet

Xycom Automation, Inc. is a subsidiary of Pro-face America, Inc.

DS-160000(G)

1600 Industrial Rack Mount PCs
with Pentium 4 (Includes 1612, 1613, & 1614)

With heavy-duty steel construction, Xycom Automation's 1600 industrial rack mount PCs are available in a range of systems that are tough enough for plant floor use. The 1600's bring maximum flexibility, serviceability, and reliability, along with powerful features and rugged packaging, to the factory floor.

Higher Performance

The Xycom 1600 Industrial PC's offer a 2.4 GHz Pentium 4 processor with 512 KB cache and running at 533 MHz system bus. With DDR SDRAM options up to 1 GB, the most depending applications will have adequate memory.

Flexible Architecture

You can configure and reconfigure Xycom Automation's industrial PC's for nearly any application through a wide variety of standard technologies. Our industrial PCs make it easy for end users and vendors to use cost-effective industry-standard components, storage options, and ISA/PCI expansion for application specific requirements. Storage options include CD-ROM, writable CD-ROM, ZIP, tape, removable hard and floppy drives. Available expansion up to 7 PCI & 3 ISA cards. See table on page 3 for summary of available lengths.

Network and Device Connectivity

The 1600's built-in dual 10/100 BaseT Ethernet ports make it easy to connect to enterprise-wide networks as well as I/O systems. The dual USB ports, one RS-232, and one selectable RS-232/422/485 port make connection of peripheral devices quick and easy without additional cards.

Multimedia Performance

The onboard 4X AGP Video Controller with 8 MB base and up to 64 MB system RAM allows high resolution with full color and 3-D opertation. The onboard Audio ports (In, Out, Mic) allows easy connection of speakers and microphones if needed.

Power Supply Options

1600 systems can be configured with a standard 300 Watt A/C or dual redundant 300 Watt A/C.

FEATURES

- Rack mount 4U height and 3 sizes for various length expansion capabilities
- 14-slot passive backplane with up to 7 PCI & 3 ISA available expansion slots
- Intel Socket 478 2.4 GHz Pentium 4, 512 KB cache, 533 MHz system bus
- 4X AGP Video controller with 8 MB base and uses system RAM up to 64 MB
- Up to 1 GB DDR SDRAM
- USB (x2)
- Parallel Port
- One RS-232 port and one selectable RS-232/422/485 port
- Audio (In, Out, Mic)
- Dual 10/100 BaseT Ethernet ports
- 300 Watt AC power supply and Optional Dual Redundant Power Supply
- Lockable front door panel for preventing unwanted access
- PS/2 keyboard and mouse ports behind front door
- Three 5.25" front accessible drive bays
- Internal hard drive up to 40 GB
- Power-on switch and reset switch behind lockable front door, also includes HDD LED indicator
- 82 CFM cooling fan that dissipates heat in the chassis and easy-to-clean air filters in front door to prevent internal components from excessive dust
- Hold-down clamp for protecting add-on cards against vibration
- Preloaded Windows 2000, NT, XP, or No operating system

XYCOM™
a PRO-FACE America Company

PRODUCT MOUNTING AND DIMENSIONS

16.86 (428.24)

6.80 (172.7)

Rear
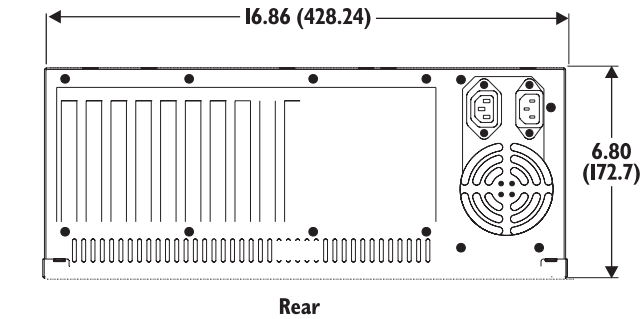
	A	B	C	D	E	F	G
1612	17.75 (450.85)	19.25 (488.95)	17.875 (454.025)	3.75 (95.25)	7.37 (187.198)	10.99 (279.146)	14.61 (371.094)
1613	19.75 (501.65)	21.25 (539.75)	19.875 (504.825)	4.50 (114.30)	8.12 (206.25)	11.74 (298.20)	15.36 (390.14)
1614	22.75 (577.85)	24.25 (615.95)	22.875 (581.03)	4.50 (114.30)	8.12 (206.25)	11.74 (298.20)	15.36 (390.14)

16.86 (428.24)

.9 (22.86)

2.8 (71.12)

A

Top

B

C

G

F

E

D

Side

19 (482.6)

7.00 (177.8) (4U)

Front

1.50 (38.1)

4.00 (101.6)

18.31 (465.074)

Front with door closed
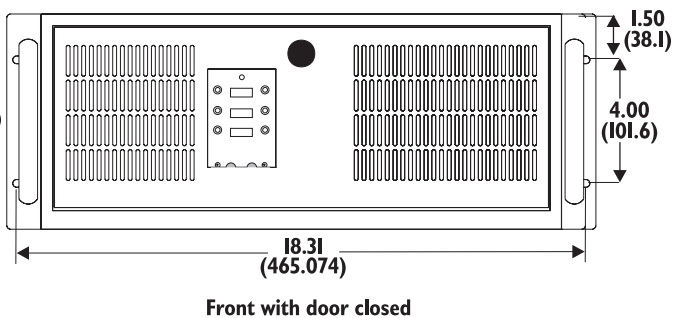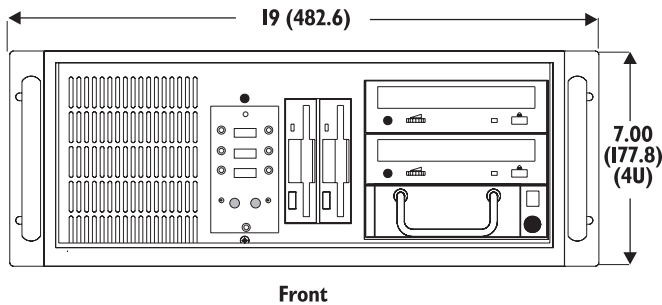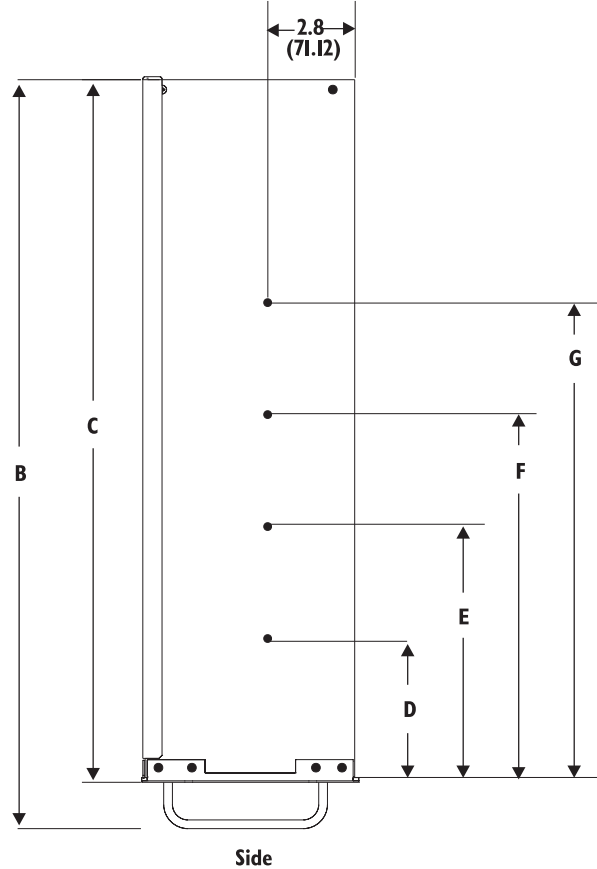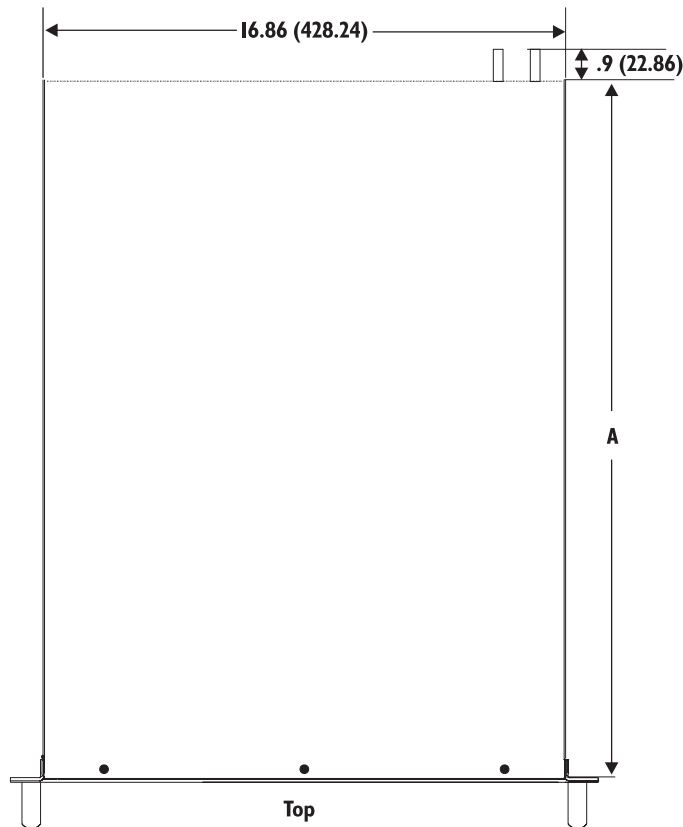
All dimensions are in inches (mm).

Optional slide rail and wall or shelf mounting kits available. See page 4.

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	5% to 90% RH, noncondensing
Shock [a]	2g peak acceleration, 11 msec duration	7.5g peak acceleration, 11 msec duration
Vibration 5-2000 Hz	.5g acceleration	.081″ peak to peak displacement 2g maximum acceleration
Altitude [b]	Sea level to 15,000 ft.	Sea level to 50,000 ft.

[a] Mounted by the flange only (not rail mounted).
[b] Consistent with internal component specifications.

Cooling fan capacity [c]

82 CFM with dust filters

[c] Does not include power supply fans

Electrical

Power Supply	300 W AC	2 x 300 W AC Redundant
Rated input	100-240 V AC, autoranging, 50-60 Hz, 4/2A (maximum), 150 W nominal [d]	100-240 V AC, autoranging, 50-60 Hz, 4/2A (maximum), 150 W nominal [d]

[d] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

Unit Weight

48.2 lbs (23 kg)

Regulatory Compliance

CE

- EN 55022
- EN 50082-2
- IEC 60950-1

FCC

- 47 CFR, Part 15, Class A

Safety Agency Approvals

UL

- UL 1950

cUL

- CSA-C22.2, #950 [e]

[e] Not available with DVD-R/W option.

Available Expansion

Model	Available ISA Expansion Slots			Available PCI Expansion Slots			Total Available Slots
	Full-length	3/4-length	1/2 length	Full-length	3/4-length	1/2 length	
1612	3	0	0	1	2	4	10
1613	3	0	0	1	6	0	10
1614	3	0	0	4	3	0	10

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number	Description
1612-2400-256-7P-2K	A 1612, 1613, or 1614 series industrial rack mount PC with 2.4 GHz Intel Socket
1613-2400-256-7P-2K	478 Pentium 4, 512 KB cache, 533 MHz system bus processor, 256 MB DDR SDRAM,
1614-2400-256-7P-2K	Internal 20 GB hard drive, preloaded with Windows 2000 and 4X AGP video controller

16 __ __ __ -7P __ __ __ __ __ __

Rack Mount Form Factor
12   18.00 in deep
13   19.75 in (501.65 mm) deep
14   22.75 in (577.85) deep

CPU
-2400   2.4 GHz Pentium 4 CPU

SDRAM
-256   256 MB DRAM
-512   512 MB DRAM
-1000   1.0 GB DRAM

Power Supply
blank   300W AC
-RAC   Redundant 300W hot swappable Ac[b]

Internal Hard Drive
-ND   No hard drive [a]
blank   40 GB IDE hard drive
-80G   80 GB IDE hard drive

Front Accessible 5.25" Drive Bays[c]
blank   no 5.25" devices installed
-CD   CD-ROM drive installed EIDE
-CDW   CD-R/W drive installed EIDE
-DVD   DVD-ROM Drive
-DVDW   DVD-ROM R/W Drive
-ZIP   ZIP drive EIDE
-RHD1   Removable 40 GB hard drive EIDE
-RHD2   Removable 80 GB hard drive EIDE

> 5.25" devices must be ordered in sequence shown.
> For example, -CD -RHD1 -RHD1, not -RHD1 -RHD1 -CD.

Operating System
-NOS   No operating system
-NT   Windows NT
-2K   Windows 2000
-XP   Pre-activated Windows XP

[a]Must select at least one EIDE hard drive (-RHD1 or -RHD2). [b]Only available on 1613 & 1614
[c]When ordering 5.25″ drive bay devices and no operating system, all required drivers will not be loaded and devices will not function properly.

> **Important Notice for XP configurations:** Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

Accessories

Order Number	Description
1600-RMS	Rack mount slide rail kit. Sold separately
1600-WMB	Wall or shelf mount bracket. Sold separately.

The 1600 Industrial PC carries a two-year warranty on parts and labor. Extended warranties are available.

Xycom Automation, Inc.
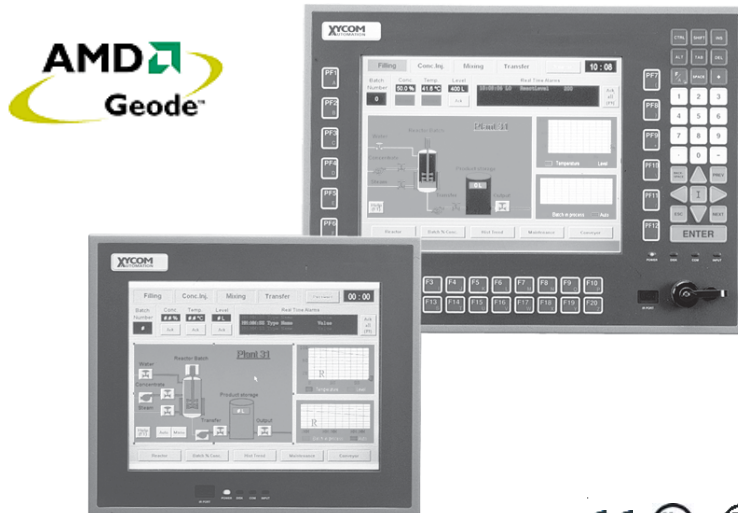**Phone: 734-429-4971   Fax: 734-429-1010**
http://www.xycom.com

Customer Support Hotline:
734-944-0482

XYCOM™
a PRO-FACE America Company

3300 Series Heavy-Duty Flat Panel Industrial PCs

DS-330001(D)

Xycom Automation's open solutions connect to other automation standards with Industrial PCs that are more than tough enough for plant floor use. (Our standard PC configurations meet the strict specifications for use in Hazardous Locations and Europe's CE mark.) Based on CPU boards designed specifically for industrial automation, our systems provide the capabilities required by demanding applications. With an installed base of 200,000 systems, these Industrial PC products are successfully applied in manufacturing and continuous process environments.

FEATURES

- Preloaded with MS-DOS, Windows® NT, Windows® 2000, or Windows CE.net (4.2) operating system
- Built-in 10/100 BaseT Ethernet port
- PC/104 expansion (up to two standard cards)
- 8.4" or 10.4" flat panel color displays
- Choice of operator input options:
    - Analog resistive touchscreen only, or
    - Reprogrammable keypad with integrated mouse, or
    - Combination of keypad, mouse and touchscreen (10.4" only)
- AMD Geode GX1 300 MHz processor
- Up to 256 MB DRAM (128 MB standard)
- Externally accessible CompactFlash™ site (Type I/II CompactFlash card)
- Floppy drive option
- 20.0 GB (or larger) hard drive
- CompactFlash™ (up to 256 MB internal) and solid state drive options
- Parallel, RS-232 and RS-232 or RS-485, PS/2 mouse and keyboard ports
- Two USB ports (1.1 compliant)
- NEMA 4/4X/12 and IP65 front panel
- UL listed for hazardous locations: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T4A
- 2-year warranty included

Easy-to-Read, Sharp Displays

We offer 8.4″ and 10.4″ VGA displays. An optional analog resistive touch screen provides a flexible, easy-to-use interface for operator input. The keypad option maximizes display space and provides legend and keycode flexibility.

Meets High Standards

To survive on the plant floor, our Industrial PC s meet NEMA 4/4x/12 front panel, FCC, UL, and European CE mark requirements. Xycom Automation also leads the industry in reliability, service, and support, with an optional five year warranty, unmatched in the industry.

Open Platform

Built-in Ethernet allows you to connect Xycom Automation PCs to networks at startup with little effort. With a preloaded Windows operating system, you can communicate locally or with Ethernet connected products and databases through Microsoft and other enabling technologies—including ActiveX, OPC, and standard DDE. Xycom Automation open platform allows you to exchange plant floor data with office applications, and to see what is happening from the plant floor to corporate headquarters.

Fits Your Needs

You can configure and reconfigure Xycom Automation's Industrial PCs to fit nearly any application through a wide variety of standard technologies. Our Industrial PCs make it easy for end users and vendors to use cost-effective, industry-standard components, storage options, PC/104 expansion, and programmable keypads for application-specific requirements.

PRODUCT CONFIGURATIONS

Model	**3308KP**	**3308T**
Display	8.4" flat panel color display, 640 x 480 (VGA)	8.4" flat panel color display, 640 x 480 (VGA)
Operator Input	51-position keypad	Analog resistive touchscreen
Preloaded OS	MS-DOS, Windows® NT Windows® 2000, Windows CE 4.2	MS-DOS, Windows® NT Windows® 2000, Windows CE 4.2
Ethernet	Built-in 10/100 BaseT	Built-in 10/100 BaseT
Expansion	PC/104 expansion (up to two cards)	PC/104 expansion (up to two cards)

Model	**3310KP(T)**	**3310T**
Display	10.4" flat panel color display, 640 x 480 (VGA)	10.4" flat panel color display, 640 x 480 (VGA)
Operator Input	63-position keypad (touchscreen option)	Analog resistive touchscreen
Preloaded OS	MS-DOS, Windows NT® Windows® 2000, Windows CE 4.2	MS-DOS, Window NT® Windows® 2000, Windows CE 4.2
Ethernet	Built-in 10/100 BaseT	Built-in 10/100 BaseT
Expansion	PC/104 expansion (up to two cards)	PC/104 expansion (up to two cards)

PRODUCT AND MOUNTING DIMENSIONS

3308KP Mounting

11.300 [287.02]
10.150 [257.81]
5.650 [143.51]
1.150 [29.21]
.350 [8.89]
4.150 [105.41]
.350 [8.89]
8.300 [210.82]
10.600 [269.24]
7.600 [193.04]
ø.188 [ø4.78]

3308T Mounting

9.900 [251.46]
8.950 [227.33]
4.950 [125.73]
.950 [24.13]
.350 [8.89]
4.150 [105.41]
.350 [8.89]
8.300 [210.82]
9.200 [233.68]
7.600 [193.04]
ø.188 [ø4.78]
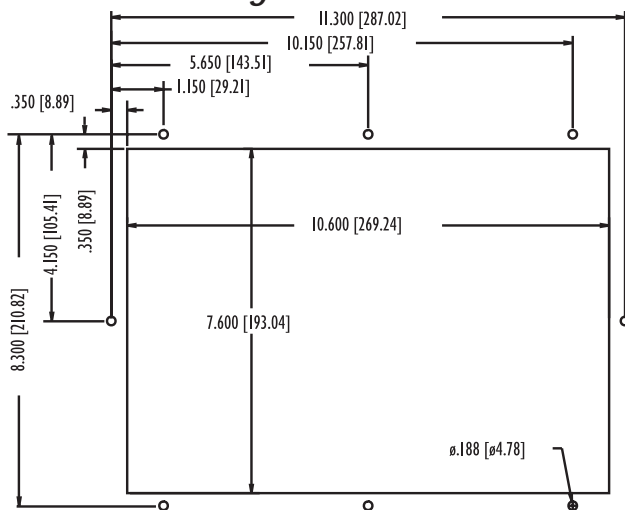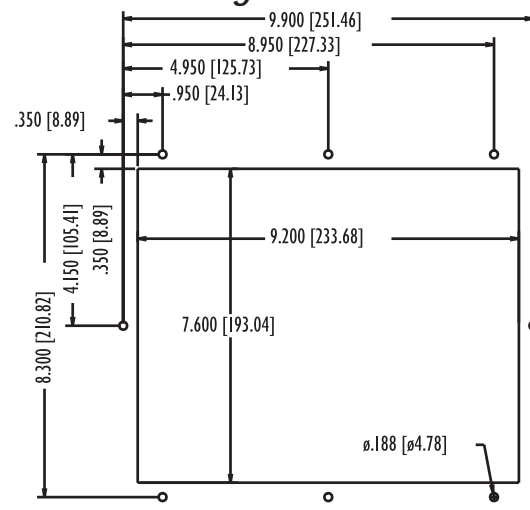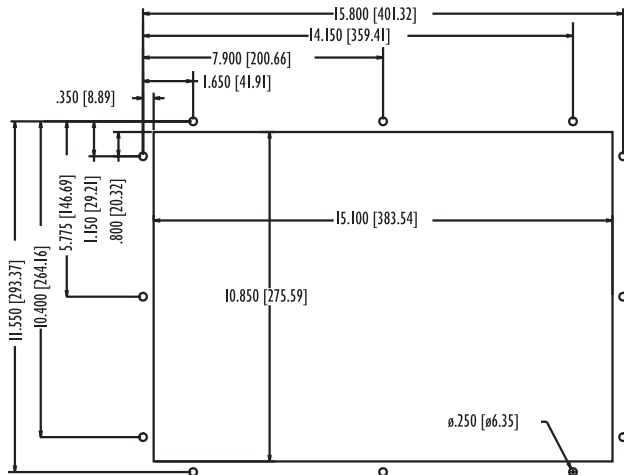
3310KP(T) Mounting

3310T Mounting
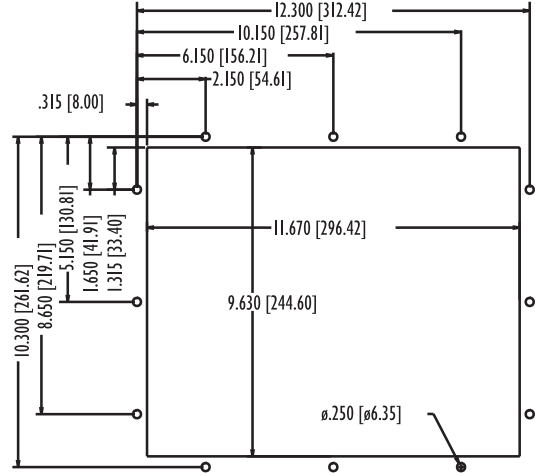
All dimensions are in inches [millimeters]

3308/3310 Unit Dimensions

Model	3308KP	3308T	3310KP(T)	3310T
Height	9.00" (228.6 mm)	9.00" (228.6 mm)	12.25" (311.5 mm)	11.00" (279.4 mm)
Width	12.00" (304.8 mm)	10.60" (269.2 mm)	16.50" (419.1 mm)	13.00" (330.2 mm)
Depth	4.30" (109.2 mm)	4.20" (106.7 mm)	4.50" (114.3 mm)	4.50" (114.3 mm)
Mounting Depth	3.30" (83.8 mm)	3.20" (81.3 mm)	3.50" (88.9 mm)	3.50" (88.9 mm)
Weight	9 lbs (4.1 kg)	9 lbs (4.1 kg)	12 lbs (5.5 kg)	11 lbs (5.0 kg)

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	5% to 95% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

Model	3308	3310
Power Supply	40 Watt power	40 Watt power
AC Power	100-240V AC, 50-60 Hz, 1A (maximum), 22 W nominal [c]	100-240V AC, 50-60 Hz, 1A (maximum), 24 W nominal [c]
DC Power (option)	18-30V DC, 24V nominal, 3.6A (maximum), 22 W nominal [c]	18-30V DC, 24V nominal, 3.6A (maximum), 24 W nominal [c]
Power Available for Expansion (all models)	+5V@2A +12V@1A -12V@0.4A	

[c] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

Regulatory Compliance

CE
- EN 55022
- EN 61000-6-2
- EN 61000-3-2, Class A
- EN 61000-3-3
- IEC 60950-1

FCC
- 47 CFR, Part 15, Class A
- ICES-003, Class A

Safety Agency Approvals

U L :
- UL 508 Listed
- UL 1604 Listed [a]

cUL:
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T4A

Front Panel

- NEMA 4/4X/12 and IP65

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number: 3300 Series Industrial PCs

Order Number	Description
3308(T or KP)-300-128	3308 series workstation with 8.4" color display, analog resistive touch screen or keypad, 128 MB DRAM, MS-DOS preloaded, AC power supply, 20 GB hard drive.

33___ - 300 ___ ___ ___ ___ ___

Color Flat Panel Display and Operator Input
10T	10.4" VGA display with touchscreen	Base: $2595
10KP	10.4" VGA display with keypad	Base: $2595
10KPT	10.4" VGA display with keypad and touchscreen	Base: $2895

DRAM
-128	128 MB DRAM	STD
-256	256 MB DRAM	+$150

Power Supply
blank	AC power supply	STD
-24V	24V DC power supply	+$250

Floppy Drive
blank	No floppy	STD
-F	External floppy drive installed	+$200

Internal Hard Drive
blank	20 GB hard drive	STD
-128M	128 MB CompactFlash drive (Internal)[a]	+$0
-256M	256 MB CompactFlash drive (Internal)[a]	+$100
-4GSS	4 GB solid state hard drive[b]	+$1500

Operating System
blank	MS-DOS	STD
-NT	Windows NT	+$300
-2K	Windows 2000 (multi-language)	+$300

[a] Available for MS-DOS only [b] Not recommended when applications are storing data

Warranty Information
The 3300 series carries a two-year parts & labor warranty.

Example Order Number: 3300 Series Windows CE-based Workstations

Order Number	Description
3308(T or KP)-300-128-128M-CE	3308 workstation with 8.4" color display, analog resistive touch screen or keypad, 300 MHz AMD Geode GX1 CPU, 128 MB DRAM, 128 MB CompactFlash™, Windows® CE 4.2 operating system, AC power supply.

33__ - 300-128__   __   __   CE

Color Flat Panel Display and Operator Input
08T   8.4″ VGA display with touchscreen
08KP   8.4″ VGA display with keypad
10T   10.4″ VGA display with touchscreen
10KP   10.4″ VGA display with keypad
10KPT   10.4″ VGA display with keypad and touchscreen

Power Supply
blank   AC power supply
-24V   24V DC power supply

Floppy Drive
blank   No floppy
-F   External floppy drive installed

Internal Mass Storage
-128M   128 MB CompactFlash drive (Internal)
-256M   256 MB CompactFlash drive (Internal)

Warranty Information
The 3300-CE series carries a two-year parts & labor warranty.

Accessories

Order Number	Description
3300-SDK01	Windows CE 4.2 software development kit (SDK). Includes 10 ft. serial cable.

3612 Industrial PCs

12.1" LCD Flat Panel Display

DS-361200(G)

CE cUL UL

Xycom Automation's newest generation of industrial PCs are designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 200,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- 12.1" SVGA TFT color flat panel
- Choice of operator input options:
  - Analog resistive touchscreen only, or
  - Reprogrammable keypad with integrated mouse, or
  - Combination of keypad, mouse & touchscreen
- Intel® Pentium® III options up to 1.26 GHz
- Up to 512 MB DRAM (256 MB standard)
- 10/100 Base T Ethernet port
- Parallel , RS-232 and RS-232 or RS485, PS/2 keyboard and mouse ports
- USB ports (1.1 compliant)
  - 2 rear-access on all models
  - 1 front-access on KPM(T) models
- VGA port (supports simultaneous display with additional monitor)
- Four available expansion slots:
  - Three ¾-length (1 PCI, 1 ISA, and 1 either ISA or PCI
  - One ½-length PCI
- DiskOnChip 2000 socket
- AGP graphics controller with 4 MB base memory
- Floppy drive and CD-ROM drive (with CD-R/W/ DVD-Read or DVD-R/W upgrade options)
- Easily removable 40 GB hard drive
- Secondary IDE Drive options (choice of one):
  - Dual hard drives
  - Externally accessible CompactFlash™ options up to 512MB
- NEMA 4/4x/12 and IP65 front panels
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G (Not available with CDW or DVD); Temp Code: T4A
- Pre-loaded with MS-DOS®, Windows® NT, Windows® 2000 (with multi-language support), or Windows® XP
- 100/240V AC power supply
- 2-year warranty included

Easy-to-Read Display

The 3612 units utilize a bright TFT 12.1" LCD flat panel display. Complex operations and screens can be displayed with clarity. SVGA (800 x 600) resolution is recommended. However, the 3612 units will display XGA (1024 x 768) resolution with some clarity degradation. The AGP graphics defaults to 4MB video RAM and will automatically share RAM (up to 32 MB) with the system to allow full 32-bit color depth.

Higher Performance

With up to 1.26GHz Pentium III processors available, the 3612 units can drive the most demanding applications. The 3612 units ship standard with a 1.0 GHz Pentium III CPU with 256K cache and

133 MHz system bus. A Pentium III 1.26 GHz CPU with 512K cache, running at 133 MHz bus is an available option.

Fits Your Needs

The 3612 units can be configured many different ways. With four available expansion slots (three ¾-length ISA/ PCI, one ½-length PCI), many cost effective, industry standard options are easily integrated. The optional dual hard drive, solid-state drive, or externally accessible Compact Flash provide the storage solution you require. Additionally the CD-ROM can be upgraded to CD-R/W/DVD-Read, or DVD-R/W, so that even more storage and/or backup options are available.

Meets High Standards

To survive on the plant floor, the 3612 units meet NEMA 4/4x/12, IP65, FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation leads the industry in reliability, service, and support with an optional five year warranty available.

Pro-face® XYCOM™

SERVICEABILITY

The 3612 CPU section easily removes from the front panel and display unit without having to detach the front panel from the NEMA enclosure. One electrical connection is used to attach the entire front panel to the rear CPU section. The rear CPU section can be replaced with another very quickly. With the cover removed expansion cards are easily installed without cumbersome cables to contend with.
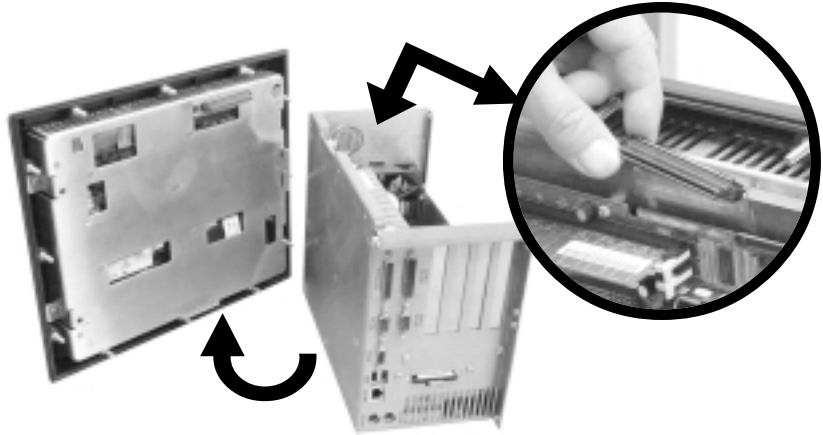
EASILY REPLACEABLE HARD DRIVE

The 3612 units have incorporated an easy access hard drive mount. Simply remove 2 screws and extract the hard drive. Remove the metal bracket and retention spring, attach it to the new hard drive and install your replacement.

SECONDARY DRIVE OPTIONS

The 3612 units have several options for the secondary IDE port on the CPU. The hard drive can be replaced with a dual hard drive unit. If solid state storage media is desired than an externally accessible Type I or Type II CompactFlash™ option is available. Internal Solid State drives are also available.
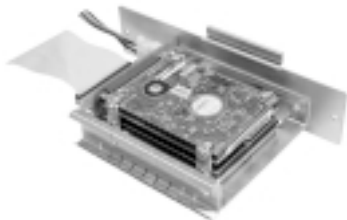
Dual 2.5" Hard Drives

Externally Accessible CompactFlash™

PRODUCT MOUNTING AND DIMENSIONS
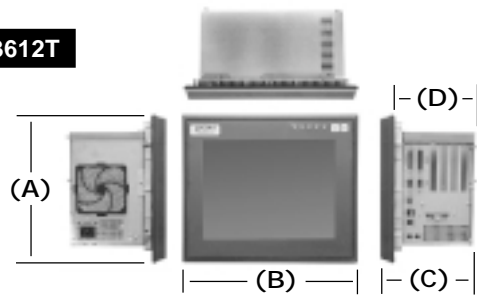
3612T
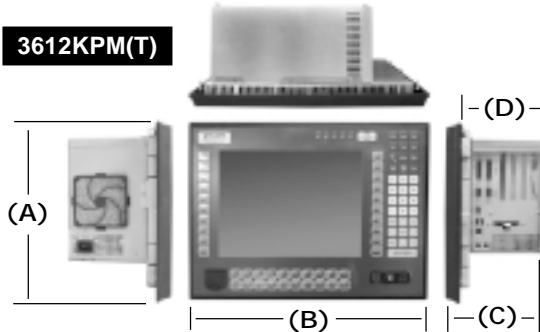
3612 Unit Dimensions

Model	3612T	3612KPM(T)
Height (A)	11.20" (279.4 mm)	12.45" (316.2 mm)
Width (B)	13.20" (330.2 mm)	16.70" (424.2 mm)
Depth (C)	7.4" (187.0 mm)	7.4" (187.0 mm)
Mounting Depth (D)	6.4" (161.5 mm)	6.4" (161.5 mm)
Weight	16 lbs (7.2 kg)	17 lbs (7.7 kg)

3612KPM(T)

3612 Configurations

Display	12.1" LCD color display, 800 x 600 (SVGA), 300 nits
Operator Input	Analog resistive touchscreen **(3612T)**
	Reprogrammable 74-position keypad and industrial mouse (Touchscreen optional) **(3612KPM(T))**
Processors	Intel® Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, 2000, XP
Expansion	One ISA, two PCI, one shared (ISA or PCI)

3612T Cutout

3612KPM(T) Cutout

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

Power Supply	150 watt AC	
AC Power	100 - 132/200 - 240 V AC, switchable, 50/60 Hz, 4.0 Amp (maximum), 90 W nominal power[†]	
Available Expansion Power	+5V@3.4A [a] +3.3V@1.58A [a] -5@160mA [b] -12@160mA [b] +12@0.58A	[a] +5V and +3.3V cannot exceed 17 watts. [b] -5V and -12V cannot exceed 2 watts.

[†] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

Page 3

PRODUCT SPECIFICATIONS AND RATINGS (continued)

Compliance

Regulatory Compliance

CE
- EN 55022: Class A
- EN 61000-6-2
- IEC 60950-1
- EN 61000-3-2, Class A
- EN 61000-3-3

FCC
- 47 CFR, Part 15, Class A

Safety Agency Approvals

UL
- UL 508 Listed
- UL 1604 Listed [a,b]

CUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a,b]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T4A
[b] CDW & DVD Drives are not supported for hazardous locations.

Front Panel
- NEMA 4/4X/12, IP65

$C \in$ c(UL) (UL)®

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Base Order Number	Description
3612T-1000-256-CDF-2K	3612T with Touchscreen front panel, Socket 370 Intel Pentium III 1 GHz CPU (256K Cache, 133 MHz bus), 256 MB DRAM, 40 GB minimum Hard Drive, Rear Access CD-ROM and Floppy, Windows 2000 operating system, On-board 10/100 Ethernet and USB, two PCI, one ISA, and one PCI or ISA 3/4-length available expansion slots.

3612   -

Operator Input
T	12″ TFT with touchscreen
KPM	12″ TFT with keypad and mouse
KPMT	12″ TFT with keypad, mouse and touchscreen

CPU
1000	Pentium III 1.0 GHz, 256k Cache, 133 MHz Bus
1260	Pentium III 1.26 GHz, 512k Cache, 133 MHz Bus

DRAM
-256	256 MB DRAM
-512	512 MB DRAM

Internal Hard Drive
Blank	Internal 3.5″ 40 GB minimum EIDE hard drive
-80G	80 GB internal EIDE hard drive
-ND	No internal hard drive[a]
-DHD	Dual 2.5″ 20 GB minimum hard drives
-4GSS	4 GB solid state hard drive[b]

Rotating Media Devices
-CDF	Rear Access Floppy and CD-ROM
-CDWDVDF	Rear Access Floppy CD-R/W with DVD read-only[c f g]
-F	Rear Access Floppy only
-DVDWF	Rear Access Floppy and Read/Write DVD-ROM Drive[c f]

Externally Accessible IDE [d]
blank	Nothing Installed
-CF	Externally Accessible Type I/II CompactFlash site
-128CF	Externally Accessible Type I/II CompactFlash site w/128 MB
-256CF	Externally Accessible Type I/II CompactFlash site w/256 MB
-512CF	Externally Accessible Type I/II CompactFlash site w/512 MB

Operating System
-DOS	MS-DOS
-NT	Windows NT [e g]
-2K	Windows 2000 (multi-language) [e]
-XP	Pre-Activated Windows XP [e]

[a] 128CF, 256CF, or 512CF (with DOS) option must be chosen when selecting the -ND option [b] Not recommended when applications are storing data [c] When ordering -CDWF, -DVDF, -DVDWF options with MS-DOS, drivers will not be loaded and devices will not function properly (requires Windows). [d] Externally accessible options are not available when choosing -DHD option. [e] Windows operating systems are only available when Internal Hard Drive or -DHD options are chosen. [f] Hazardous locations approvals do not apply when configured with a DVD or DVD-R/W drive option. [g] CDW, DVD, and DVDW options not available with Windows NT.

Warranty Information
The 3612 series carries a two-year parts & labor warranty.

Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

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734-944-0482

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3615 Industrial PCs

15.0" LCD Flat Panel Display　　　DS-361500(E)

Xycom Automation's newest generation of industrial PCs is designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 200,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- 15.0" XGA TFT color flat panel
- Choice of operator input options:
  - Analog resistive touchscreen only, or
  - Reprogrammable keypad with integrated mouse, or
  - Combination of keypad, mouse & touchscreen
- Intel® Pentium® III options up to 1.26 GHz
- Up to 512 MB DRAM (256 MB standard)
- 10/100 Base T Ethernet port
- Parallel , RS-232 and RS-232 or RS485, PS/2 keyboard and mouse ports
- USB ports (1.1 compliant)
  - 2 rear-access on all models
  - 1 front-access on KPM(T) models
- VGA port (supports simultaneous display with additional monitor)
- Four available expansion slots:
  - Three ¾-length (1 PCI, 1 ISA, and 1 either ISA or PCI
  - One ½-length PCI
- DiskOnChip 2000 socket
- AGP graphics controller with 4 MB base memory
- Floppy drive and CD-ROM drive (with CD-R/W/ DVD-Read or DVD-R/W upgrade options)
- Easily removable 20 GB hard drive
- Secondary IDE Drive options (choice of one):
  - Dual hard drives
  - Externally accessible CompactFlash™ options up to 512MB
- NEMA 4/4x/12 and IP65 front panels
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G (CDW or DVD drive options not approved for hazardous locations); Temp. Code: T5
- Pre-loaded with MS-DOS®, Windows® NT, Windows® 2000 (with multi-language support), or Windows® XP
- 100-240V AC power supply
- 2-year warranty included

Easy-to-Read Display

The 3615 units utilize a bright TFT 15.0" LCD flat panel display. Complex operations and screens can be displayed with clarity. XGA (1024 x 768) resolution is recommended. However, the 3615 units will display SXGA (1280 x 1024) resolution with some clarity degradation. The AGP graphics defaults to 4MB video RAM and will automatically share RAM (up to 32 MB) with the system to allow full 32-bit color depth.

Higher Performance

With up to 1.26 GHz Pentium III processors available, the 3615 units can drive the most demanding applications. The 3615 units ship standard with a Pentium III 1 GHz CPU with 256k cache

running at 133 MHz bus. A Pentium III 1.26 GHz with 512K cache running at 133 MHz bus is an available option.

Fits Your Needs

The 3615 units can be configured many different ways. With four available expansion slots (three ¾-length ISA/ PCI, one ½-length PCI), many cost effective, industry standard options are easily integrated. The optional dual hard drive, solid-state drive, or externally accessible Compact Flash provide the storage solution you require. Additionally, the CD-ROM can be upgraded to CD-R/W/DVD-Read, or DVD-R/W, so that even more storage and/or backup options are available.

Meets High Standards

To survive on the plant floor, the 3615 units meet NEMA 4/4x/12, IP65, FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation leads the industry in reliability, service, and support with an optional five year warranty available.

SERVICEABILITY

The 3615 CPU section easily removes from the front panel and display unit without having to detach the front panel from the NEMA enclosure. One electrical connection is used to attach the entire front panel to the rear CPU section. The rear CPU section can be replaced with another very quickly. With the cover removed expansion cards are easily installed without cumbersome cables to contend with.
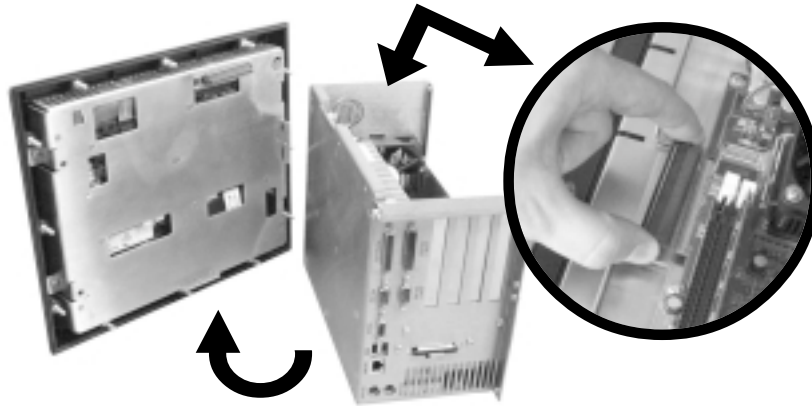
EASILY REPLACEABLE HARD DRIVE

The 3615 units have incorporated an easy access hard drive mount. Simply remove 2 screws and extract the hard drive. Remove the metal bracket and retention spring, attach it to the new hard drive and install your replacement.

SECONDARY DRIVE OPTIONS

The 3615 units have several options for the secondary IDE port on the CPU. The hard drive can be replaced with a dual hard drive unit. If solid state storage media is desired then an externally accessible Type I or Type II CompactFlash™ option is available. Internal Solid State drives also available.

Dual 2.5" Hard Drives   **Externally Accessible CompactFlash™**

PRODUCT CONFIGURATIONS

3615T Configuration

Display	15.0" LCD color display, 1024 x 768 (XGA), 300 nits
Operator Input	Analog resistive touchscreen
Processors	Intel® Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, 2000, XP
Expansion	One ISA, two PCI, one shared (ISA or PCI)

3615KPM(T) Configuration

Display	15.0" LCD color display, 1024 x 768 (XGA), 300 nits
Operator Input	Analog resistive touchscreen
	Reprogrammable 74-position keypad and industrial mouse (Touchscreen optional)
Processors	Intel® Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, 2000, XP
Expansion	One ISA, two PCI, one shared (ISA or PCI)

PRODUCT DIMENSIONS

3615T

3615T Unit Dimensions

Model	3615T
Height (A)	12.62" (320.5 mm)
Width (B)	16.59" (421.4 mm)
Depth (C)	7.64" (194.0 mm)
Mounting Depth (D)	6.64" (168.6 mm)
Weight	25 lbs (11.34 kg)

3615KPM(T)
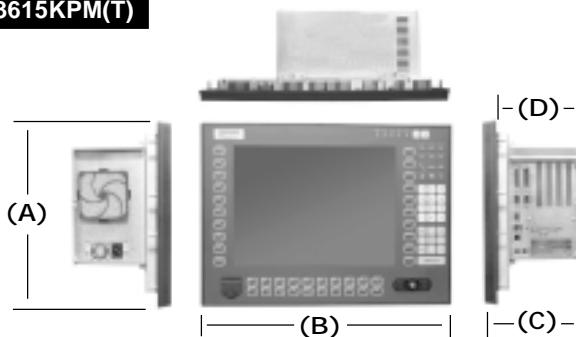
3615KPM(T) Unit Dimensions

Model	3615KPM(T)
Height (A)	13.97" (354.8 mm)
Width (B)	19.00" (482.6 mm)
Depth (C)	7.64" (194.0 mm)
Mounting Depth (D)	6.64" (168.6 mm)
Weight	26 lbs (11.79 kg)

PRODUCT MOUNTING

3615T Cutout

3615KPM(T) Cutout

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

Power Supply	150 watt AC
AC Power	100 - 132/200 - 240V AC, 50-60 Hz (switch selectable), 4.0 Amp (maximum), 100 W nominal power[†]

Available Expansion Power	+3.3V@4.95A max [a] +5V@1.92A max [a] -5@190mA max [b] -12@190mA max [b] +12@1.9A max	[a] +5V and +3.3V cannot exceed 26 watts. [b] -5V and -12V cannot exceed 3.6 watts.	[†] Nominal Power is measured for a base configuration only. Any additional expansion and/ or devices will increase the input power required.

Compliance

Regulatory Compliance
CE
- EN 55022: Class A
- EN 61000-6-2
- IEC 60950-1
- EN 61000-3-2, Class A
- EN 61000-3-3

FCC
- 47 CFR, Part 15, Class A

Safety Agency Approvals
UL
- UL 508 Listed Listed
- UL 1604 Listed [a,b]

CUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a,b]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T5
[b] CDW & DVD Drives are not supported for hazardous locations.

Front Panel
- NEMA 4/4X/12, IP65

All agency approvals are pending for DC voltages

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Base Order Number	Description
3615T-1000-256-CDF-2K	3615T with Touchscreen front panel, Socket 370 Intel Pentium III 1 GHz CPU (256K Cache, 133 MHz bus), 256 MB DRAM, 40 GB minimum Hard Drive, Rear Access CD-ROM and Floppy, Windows 2000 operating system, On-board 10/100 Ethernet and USB, two PCI, one ISA, and one PCI or ISA 3/4-length available expansion slots.

3615 ___ - ___ ___ ___ ___ ___ ___

Operator Input
T   15″ TFT with touchscreen
KPM   15″ TFT with keypad and mouse
KPMT 15″ TFT with keypad, mouse and touchscreen

CPU
1000   Pentium III 1.0 GHz, 256k Cache, 133 MHz Bus
1260   Pentium III 1.26 GHz, 512k Cache, 133 MHz Bus

DRAM
-256   256 MB DRAM
-512   512 MB DRAM

Internal Hard Drive
Blank   Internal 3.5″ 40 GB minimum EIDE hard drive
-80   80 GB Internal EIDE hard drive
-ND   No internal hard drive[a]
-DHD   Dual 2.5″ 20 GB minimum hard drives
-4GSS   4 GB solid state hard drive [b]

Rotating Media Devices
-CDF   Rear Access Floppy and CD-ROM
-CDWDVDF Rear Access Floppy, CD-R/W, with DVD read-only [c f g]
-F   Rear Access Floppy only
-DVDWF Rear Access Floppy and Read/Write DVD-ROM drive [c f g]

Externally Accessible IDE [d]
blank   Nothing Installed
-CF   Externally Accessible Type I/II CompactFlash site
-128CF Externally Accessible Type I/II CompactFlash site w/128 MB
-256CF Externally Accessible Type I/II CompactFlash site w/256 MB
-512CF Externally Accessible Type I/II CompactFlash site w/512 MB

Operating System
Blank   MS-DOS
-NT   Windows NT [e g]
-2K   Windows 2000 (multi-language) [e]
-XP   Pre-Activated Windows XP [e]

[a] 128CF, 256CF, or 512CF (with DOS) option must be chosen when selecting the -ND option [b] Not recommended when applications are storing data [c] When ordering -CDWF, -DVDF, -DVDWF options with MS-DOS, drivers will not be loaded and devices will not function properly (requires Windows). [d] Externally accessible options are not available when choosing -DHD option. [e] Windows operating systems are only available when Internal Hard Drive or -DHD options are chosen. [f] Hazardous locations approvals do not apply when configured with a DVD or DVD-R/W drive option. [g] CDW, DVD, and DVDW options not available with Windows NT..

Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

Warranty Information
The 3615 series carries a two-year parts & labor warranty.

Xycom Automation
734-429-4971
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http://www.xycom.com

Customer Support Hotline:
734-944-0482

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3712KPM Industrial PCs

12.1" LCD Flat Panel Display

DS-371200(G)

intel inside
pentium® *III*

CE (UL) c(UL)

Xycom Automation's newest generation of Industrial PCs is designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in Hazardous Locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 200,000 systems, our Industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- 12.1" SVGA TFT color flat panel
- Choice of operator input options:
  - Reprogrammable keypad with integrated mouse, or
  - Combination of keypad, mouse & touchscreen
- Intel® Pentium® III options up to 1.26 GHz
- Up to 512 MB DRAM (256 MB standard)
- 10/100 Base T Ethernet port
- Parallel, RS-232 and RS-232 or RS485, PS/2 keyboard and mouse ports
- USB ports (1.1 compliant)
  - 2 rear-access
  - 1 front-access
- VGA port (supports simultaneous display with additional monitor)
- Four available expansion slots:
  - Three full-length (1 PCI, 1 ISA, and 1 either ISA or PCI
  - One ½-length PCI
- DiskOnChip 2000 socket
- AGP graphics controller with 4 MB base memory
- Floppy drive and CD-ROM drive (with CD-R/W/ DVD-Read or DVD-R/W upgrade options)
- Easily removable 40 GB hard drive
- Secondary IDE Drive options (choice of one):
  - Dual hard drives
  - Externally accessible CompactFlash™ options up to 512MB
- NEMA 4/4x/12 and IP65 front panels
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G (CDW and DVD drive options not approved for hazardous locations); Temp. Code T4A
- Pre-loaded with MS-DOS®, Windows® NT, Windows® 2000 (with multi-language support), or Windows® XP
- 100-240 V AC power supply (24VDC optional)
- 2-year warranty included

Easy-to-Read Display

The 3712KPM units utilize a bright TFT 12.1" LCD flat panel display. Complex operations and screens can be displayed with clarity. SVGA (800 x 600) resolution is recommended. However, the 3712KPM units will display XGA (1024 x 768) resolution with some clarity degradation. The AGP graphics defaults to 4MB video RAM and will automatically share RAM (up to 32 MB) with the system to allow full 32-bit color depth.

Higher Performance

With up to 1.26 GHz Pentium® III processors available, the 3712KPM units can drive the most demanding applications. The 3712KPM units ship standard with a Pentium III 1 GHz with 256K cache running at 133 MHz bus. A 1.26 GHz Pentium® III with 512K cache running at 133 MHz bus is an available option.

Cutout Compatibility

The 3712KPM is directly cutout-compatible with many Xycom Automation legacy units. It offers a hardware upgrade path for many units, including the 2050, 8450, 9450, 9475, 9485, 9486, 9486 and the 9487 without the need to alter your current enclosure and/or machine. For a more complete list, or to verify compatibility, contact Xycom Customer Care.

Fits Your Needs

The 3712KPM can be configured many different ways. With four available expansion slots (three full-length ISA/PCI, one ½-length PCI), many cost-effective, industry standard options are easily integrated. The optional dual hard drive, solid-state drive, or externally accessible CompactFlash™ provide the storage solution you require. Additionally, the CD-ROM can be upgraded to

CD-R/W/DVD-Read, or DVD-R/W, so that even more storage and/or backup options are available.

Meets High Standards

To survive on the plant floor, the 3712KPM units meet NEMA 4/4x/12, IP65, FCC, UL, CSA, and European CE mark requirements for industrial automation equipment. Xycom Automation leads the industry in reliability, service, and support with an optional five year warranty available.

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Page 1

SERVICEABILITY

The 3712KPM CPU section easily removes from the front panel and display unit, without having to detach the front panel from the NEMA enclosure. One electrical connection is used to attach the entire front panel to the rear CPU section. The rear CPU section can be replaced with another very quickly. With the cover removed, expansion cards are easily installed without cumbersome cables to contend with.
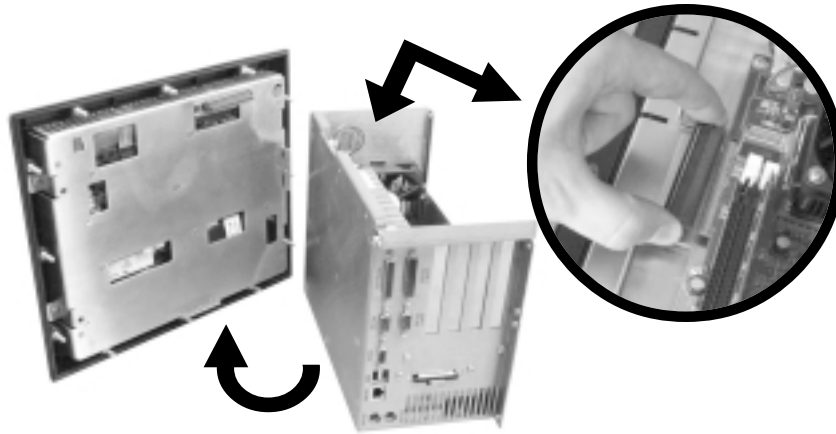
EASILY REPLACEABLE HARD DRIVE

The 3712KPM units have incorporated an easy to access hard drive mount. Simply remove 2 screws and extract the hard drive. Remove the metal bracket and retention spring, attach it to the new hard drive and install your replacement.

SECONDARY DRIVE OPTIONS

The 3712KPM units have several options for the secondary IDE port on the CPU. The hard drive can be replaced with a dual hard drive unit. If solid state storage media is desired, then an externally accessible Type I or Type II CompactFlash™ option is available. Internal Solid State drives are also available.

Dual 2.5" Hard Drives

Externally Accessible CompactFlash™

PRODUCT CONFIGURATIONS

3712KPM(T) Configuration

Display	12.1" LCD color display, 800 x 600 (SVGA), 300 nits
Operator Input	Reprogrammable 74-position keypad and industrial mouse (Touchscreen optional)
Processors	Intel® Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, Windows® 2000, Windows® XP
Expansion	One ISA; one full-length and one ½-length PCI; one shared (ISA or PCI)

PRODUCT MOUNTING
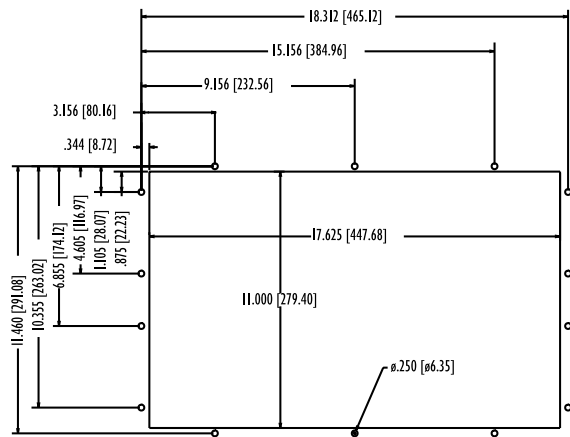
PRODUCT DIMENSIONS
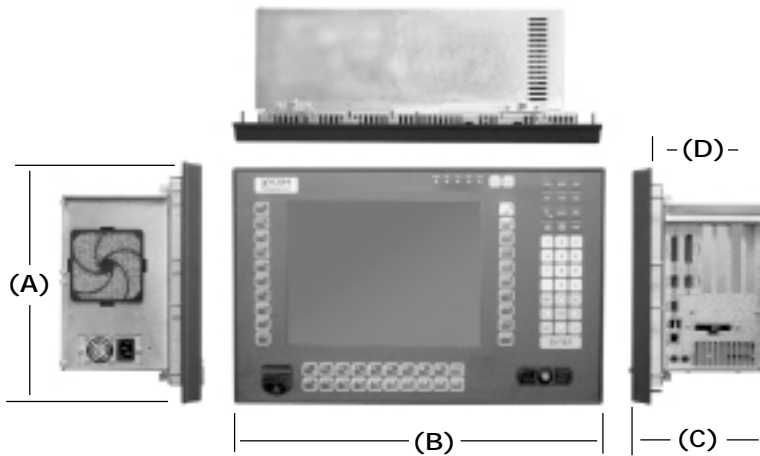
3712KPM(T) Unit Dimensions

Model	3712KPM(T)
Height (A)	12.2" (310 mm)
Width (B)	19.00" (482.6 mm)
Depth (C)	7.64" (194.0 mm)
Mounting Depth (D)	6.64" (168.6 mm)
Weight	29 lbs (16.8 kg)

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives, and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

AC Power Supply	200 watt AC
AC Power	100 - 240V AC, 50-60 Hz, 5.0 Amps (maximum) 95 W nominal power[†]
Power Available for Expansion	+3.3V@10A max [a] +5V@6A max [a] -5@.2A max [b] -12@.5A max [b] +12@4.9A max

[a] +5V and +3.3V combined cannot exceed 36 watts.

[b] -5V and -12V combined cannot exceed 8 watts.

DC Power Supply	300 watt DC
DC Power	19 - 36VDC 20.0 Amps (maximum) 100 W nominal power[†]
Power Available for Expansion	+3.3V@9A max +5V@7A max -5@0.54A max [a] -12@0.7A max [a] +12@8A max

[a] -5V and -12V combined cannot exceed 20 amps.

[†] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

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Compliance

Regulatory Compliance

CE
- EN 55022: Class A
- EN 61000-6-2
- IEC 60950-1
- EN 61000-3-2, Class A
- EN 61000-3-3

FCC
- 47 CFR, Part 15, Class A

Safety Agency Approvals

UL
- UL 508 Listed
- UL 1604 Listed [a,b]

cUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a,b]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T4A
[b] CDW & DVD Drives are not supported for hazardous locations.

Front Panel
- NEMA 4/4X/12, IP65

All agency approvals are pending for DC voltages

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number	Description
3712KPM-1000-256-CDF-2K	3712KPMT with keypad & mouse front panel, Intel® Pentium III 1 GHz CPU, 256 MB DRAM, 40 GB minimum Hard Drive, Rear Access CD-ROM and Floppy, Windows 2000.

3712 ___ - ___ ___ ___ ___ ___ ___

Operator Input
KPM   12.1" TFT with keypad and mouse
KPMT   12.1" TFT with keypad, mouse and touchscreen

CPU
1000   Pentium III 1.0 GHz, 256k Cache, 133 MHz Bus
1260   Pentium III 1.26 GHz, 512k Cache, 133 MHz Bus

DRAM
-256   256 MB DRAM
-512   512 MB DRAM

Power Supply
blank   AC power supply
-24V   24V DC power supply

Internal Hard Drive
Blank   Internal 3.5" 40 GB minimum EIDE hard drive
-80G   80 GB internal EIDE hard drive
-ND   No internal hard drive [a]
-DHD   Dual 2.5" 20 GB minimum hard drives
-4GSS   4 GB solid state hard drive [b]

Rotating Media Devices
-CDF   Rear Access Floppy and CD-ROM
-CDWDVDF   Rear Access Floppy and Read/Write CD-ROM [c f g]
-F   Rear Access Floppy only
-DVDWF   Rear Access Floppy and Read/Write DVD-ROM Drive [c f g]

Externally Accessible IDE [d]
blank   Nothing Installed
-CF   Externally Accessible Type I/II CompactFlash site
-128CF   Externally Accessible Type I/II CompactFlash site w/128 MB
-256CF   Externally Accessible Type I/II CompactFlash site w/256 MB
-512CF   Externally Accessible Type I/II CompactFlash site w/512 MB

Operating System
-DOS   MS-DOS
-NT   Windows NT [e g]
-2K   Windows 2000 (multi-language) [e]
-XP   Pre-Activated Windows XP [e]

[a] 128CF, 256CF, or 512CF (with DOS) option must be chosen when selecting the -ND option [b] Not recommended when applications are storing data [c] When ordering -CDWF, -DVDF, -DVDWF options with MS-DOS, drivers will not be loaded and devices will not function properly (requires Windows). [d] Externally accessible options are not available when choosing -DHD option. [e] Windows operating systems are only available when Internal Hard Drive or -DHD options are chosen. [f] Hazardous locations approvals do not apply when configured with a DVD or DVD-R/W drive option. [g] CDW, DVD, and DVDW options not available with Windows NT.

Warranty Information

The 3712 series carries a two-year parts & labor warranty.

Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

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3715 Industrial PCs

15.0" LCD Flat Panel Display　　　DS-371500(E)

CE c(UL) (UL)

Xycom Automation's newest generation of Industrial PCs is designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in Hazardous Locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 200,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- 15.0" XGA TFT color flat panel
- Choice of operator input options:
  - Analog resistive touchscreen only, or
  - Reprogrammable keypad with integrated mouse, or
  - Combination of keypad, mouse & touchscreen
- Intel® Pentium® III options up to 1.26 GHz
- Up to 512 MB DRAM (256 MB standard)
- 10/100 BaseT Ethernet port
- Parallel , RS-232 and RS-232 or RS485, PS/2 keyboard and mouse ports
- USB ports (1.1 compliant)
  - 2 rear-access on all models
  - 1 front-access on KPM(T) models
- VGA port (supports simultaneous display with additional monitor)
- Four available expansion slots:
  - Three full-length (1 PCI, 1 ISA, and 1 either ISA or PCI)
  - One ½-length PCI
- DiskOnChip 2000 socket
- Floppy drive and CD-ROM drive (with CD-R/W/ DVD-Read or DVD-R/W upgrade options)
- Easily-removable 40 GB hard drive
- AGP graphics controller with 4 MB base memory
- Secondary IDE Drive options (choice of one):
  - Dual hard drives
  - Externally accessible CompactFlash™ options up to 512MB
- UL 508 Listed
- NEMA 4/4x/12 and IP65 front panels
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G (CDW & DVD drive options not approved for hazardous locations); Temp. Code T4A
- Pre-loaded with MS-DOS®, Windows® NT, Windows® 2000 (with multi-language support), or Windows® XP
- 100-240 V AC power supply (24VDC optional)
- 2-year warranty included

Easy-to-Read Display

The 3715 units utilize a bright TFT 15.0" LCD flat panel display. Complex operations and screens can be displayed with clarity. XGA (1024 x 768) resolution is recommended. However, the 3715 units will display SXGA (1280 x 1024) resolution with some clarity degradation. The AGP graphics defaults to 4MB video RAM and will automatically share RAM (up to 32 MB) with the system to allow full 32-bit color depth.

Higher Performance

With up to 1.26 GHz Pentium III processors available, the 3715 units can drive the most demanding applications. The 3715 units ship standard with a Pentium III 1 GHz CPU with 256K cache

running at 133 MHz bus. A Pentium III 1.26GHz with 512K cache running at 133 MHz bus is an available option.

Fits Your Needs

The 3715 units can be configured many different ways. With four available expansion slots (three full-length ISA/ PCI, one ½-length PCI), many cost effective, industry standard options are easily integrated. The optional dual hard drive, solid-state drive, or externally accessible Compact Flash provide the storage solution you require. Additionally, the CD-ROM can be upgraded to CD-R/W/DVD-Read or DVD-R/W, so that even more storage and/or backup options are available.

Meets High Standards

To survive on the plant floor, the 3715 units meet NEMA 4/4x/12, IP65, FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation leads the industry in reliability, service, and support with an optional five year warranty available.

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SERVICEABILITY

The 3715 CPU section easily removes from the front panel and display unit without having to detach the front panel from the NEMA enclosure. One electrical connection is used to attach the entire front panel to the rear CPU section. The rear CPU section can be replaced with another very quickly. With the cover removed expansion cards are easily installed without cumbersome cables to contend with.
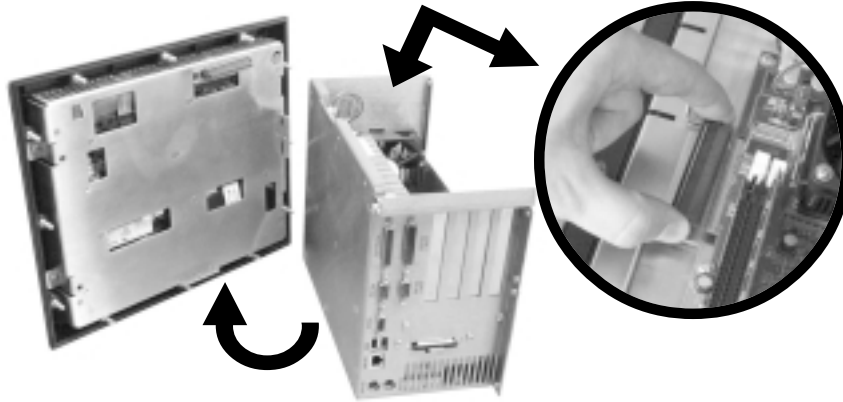
EASILY REPLACEABLE HARD DRIVE

The 3715 units have incorporated an easy access hard drive mount. Simply remove 2 screws and extract the hard drive. Remove the metal bracket and retention spring, attach it to the new hard drive and install your replacement.

SECONDARY DRIVE OPTIONS

The 3715 units have several options for the secondary IDE port on the CPU. The hard drive can be replaced with a dual hard drive unit. If solid state storage media is desired then an externally accessible Type I or Type II CompactFlash™ option is available. Intenral Solid State drives also available.

Dual 2.5" Hard Drives

Externally Accessible CompactFlash™

PRODUCT CONFIGURATIONS

3715T Configuration

Display	15.0" LCD color display, 1024 x 768 (XGA), 300 nits
Operator Input	Analog resistive touchscreen
Processors	Intel® Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, Windows® 2000, Windows® XP
Expansion	One ISA, two PCI, one shared (ISA or PCI)

3715KPM(T) Configuration

Display	15.0" LCD color display, 1024 x 768 (XGA), 300 nits
Operator Input	Analog resistive touchscreen
	Reprogrammable 74-position keypad and industrial mouse (Touchscreen optional)
Processors	Intel® Pentium® III
Preloaded OS	MS-DOS®, Windows NT®, Windows® 2000, Windows® XP
Expansion	One ISA, two PCI, one shared (ISA or PCI)

PRODUCT DIMENSIONS

3715T

3715T Unit Dimensions

Model	3715T
Height (A)	13.97" (354.8 mm)
Width (B)	19.00" (482.6 mm)
Depth (C)	7.64" (194.0 mm)
Mounting Depth (D)	6.64" (168.6 mm)
Weight	37 lbs (16.8 kg)

3715KPM(T)
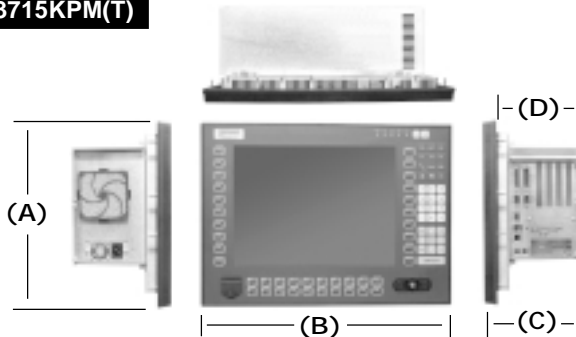
3715KPM(T) Unit Dimensions

Model	3715KPM(T)
Height (A)	13.97" (354.8 mm)
Width (B)	19.00" (482.6 mm)
Depth (C)	7.64" (194.0 mm)
Mounting Depth (D)	6.64" (168.6 mm)
Weight	37 lbs (16.8 kg)

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

AC Power Supply	200 watt AC
AC Power	100 - 132/200 -240V AC, 50-60 Hz (autoranging), 4.0 Amp (maximum) 100 W nominal power [†]
Power Available for Expansion	+3.3V@10A max [a] +5V@6A max [a] -5@.2A max [b] -12@.5A max [b] +12@4.9A max

[a] +5V and +3.3V combined cannot exceed 36 watts.

[b] -5V and -12V combined cannot exceed 8 watts.

DC Power Supply	300 watt DC
DC Power	19 - 36VDC 20.0 Amps (maximum) 105 W nominal power [†]
Power Available for Expansion	+3.3V@9A max +5V@7A max -5@0.54A max [a] -12@0.7A max [a] +12@8A max

[a] -5V and -12V combined cannot exceed 20 amps.

[†] Nominal Power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

Compliance

Regulatory Compliance

CE
- EN 55022: Class A
- EN 61000-6-2
- IEC 60950-1
- EN 61000-3-2, Class A
- EN 61000-3-3

FCC
- 47 CFR, Part 15, Class A

Safety Agency Approvals

UL
- UL 508 Listed
- UL 1604 Listed [a,b]

CUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a,b]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T4A
[b] CDW & DVD Drives are not supported for hazardous locations.

Front Panel
- NEMA 4/4X/12, IP65

CE ᶜ⒰Ⓛ Ⓤ⒧

Page 4

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Base Order Number	Description
3715T-1000-256-CDF-2K	3715T with Touchscreen front panel, Socket 370 Intel Pentium III 1 GHz CPU (256K Cache, 133 MHz bus), 256 MB DRAM, 40 GB minimum Hard Drive, Rear Access CD-ROM and Floppy, Windows 2000 operating system, On-board 10/100 Ethernet and USB, two PCI, one ISA, and one PCI or ISA 3/4-length available expansion slots.

3715 □ - □ □ □ □ □ □ □

Operator Input
T   15″ TFT with touchscreen
KPM   15″ TFT with keypad and mouse
KPMT 15″ TFT with keypad, mouse and touchscreen

CPU
1000   Pentium III 1.0 GHz, 256k Cache, 133 MHz Bus
1260   Pentium III 1.26 GHz, 512k Cache, 133 MHz Bus

DRAM
-256   256 MB DRAM
-512   512 MB DRAM

Power Supply
blank   AC power supply
-24V   24V DC power supply

Internal Hard Drive
Blank   Internal 3.5″ 40 GB minimum EIDE hard drive
-80G   80 GB internal EIDE hard drive
-ND   No internal hard drive**a**
-DHD   Dual 2.5″ 20 GB minimum hard drives
-4GSS   4 GB solid state hard drive**b**

Rotating Media Devices
-CDF   Rear Access Floppy and CD-ROM
-CDWDVDF Rear Access Floppy and CD-R/W with DVD read-only**c f g**
-F   Rear Access Floppy only
-DVDWF Rear Access Floppy and Read/Write DVD-ROM Drive**c f g**

Externally Accessible IDE **d**
blank   Nothing Installed
-CF   Externally Accessible Type I/II CompactFlash site
-128CF   Externally Accessible Type I/II CompactFlash site w/128 MB
-256CF   Externally Accessible Type I/II CompactFlash site w/256 MB
-512CF   Externally Accessible Type I/II CompactFlash site w/512 MB

Operating System
-DOS   MS-DOS
-NT   Windows NT **e g**
-2K   Windows 2000 (multi-language) **e**
-XP   Pre-Activated Windows XP **e**

a 128CF, 256CF, or 512CF (with DOS) option must be chosen when selecting the -ND option **b**Not recommended when applications are storing data **c**When ordering -CDWF, -DVDF, -DVDWF options with MS-DOS, drivers will not be loaded and devices will not function properly (requires Windows). **d** Externally accessible options are not available when choosing -DHD option. **e** Windows operating systems are only available when Internal Hard Drive or -DHD options are chosen. **f** Hazardous locations approvals do not apply when configured with a DVD or DVD-R/W drive option. **g** CDW, DVD, and DVDW options not available with Windows NT.

Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

Warranty Information
The 3715 series carries a two-year parts & labor warranty.

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Courtesy of Steven Engineering, Inc. ● 230 Ryan Way, South San Francisco, CA 94080-6370 ● General Inquiries: (800) 670-4183 ● www.stevenengineering.com

Pro-face

4600 Series Industrial PCs
with Integrated 12.1" or 15.0" LCD Displays

DS-460000(C)

12 and 15-inch Color LCD Touch Monitor

4612/ 4615

| AC100/240V |
| SVGA |
| XGA |

12-inch   **15**-inch

Models: 4612T-1300 / 4615T-1300
CPU: Intel Celeron M 1.3GHz

Windows 2000   Windows XP

Pro-face® XYCOM™

c UL us   CE

Pro-face's newest generation of industrial PCs are designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 300,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- 12.1" SVGA or 15.0" XGA TFT color flat panels
- Reprogrammable keypad with integrated mouse, touchscreen only, or both
- Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus (optional Pentium® M 2.0 GHz, 2M cache, 533 MHz system bus)
- Up to 2 GB DRAM (512 MB standard)
- 80 GB minimum Serial ATA hard drive (optional dual hard drives)
- 4X AGP graphics with 32 MB video memory (shared with system memory)
- Four available expansion slots:
  - One (8.0" max.) PCI expansion slot;
  - Two (9.0" max.) PCI expansion slots;
  - One (9.0" max.) PCI or ISA expansion slot
- 10/100, and 10/100/1000 BaseT Ethernet
- 4 USB 2.0 compliant ports (one additional 1.1 compatible port on front of KPM units)
- Three Serial Ports:
  - 2 RS-232;
  - 1 Selectable RS-232/422/485
- Rear accessible Type I/II CompactFlash™ socket
- CD-ROM (optional CD-R/W with DVD-read-only, DVD-R/W, and floppy)
- NEMA 4/4x/12 front panel
- UL, cUL, CE approvals
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G
- Windows® XP and 2000 operating system
- 100-240 VAC power supply
- 2-year warranty included

Higher Performance, Lower Power

The 4600 series utilizes an Intel mobile processor providing superior processing power while utilizing half the wattage of a comparable Pentium 4 processor. The optional Pentium M 2.0 GHz processor (2 M Cache & 533 MHz system bus) out-performs a desktop Pentium 4, 2.4 GHz (512 K Cache & 533 MHz bus) while utilizing less than half the wattage. With less wattage input the ambient operating temperature is more easily maintained, possibly without the need for expensive enclosure cooling devices. This makes the 4600 series ideal for applications which require a NEMA sealed enclosure.

Easy-to-Read Display

The 4600 series units utilize bright TFT LCD displays. The 4612 units incorporate a 12.1" SVGA (800 x 600) resolution while the 4615 units incorporate a 15.0" XGA (1024 x 768) resolution. In addition the 4600 units automatically share up to 32 MB system RAM to allow full 32-bit color depth and fast 3D rendering.

Fits Your Needs

The 4600 series can be configured many different ways. With four available expansion slots many cost effective, industry standard options are easily integrated. The optional dual hard drive, externally accessible

CompactFlash, or RAID-enabled configuration provides the storage solution you require. Additionally the CD-ROM can be upgraded to CD-R/W or DVD-R/W providing even more storage and backup options.

Meets High Standards

To survive on the plant floor the 4600 series meets FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Pro-face/Xycom Industrial PCs lead the industry in reliability, service, and support with an optional five year warranty available.

SERVICEABILITY

The 4600 series CPU section easily removes from the front panel and display unit without having to detach the front panel from the NEMA enclosure. The rear CPU section can be replaced with another very quickly. With the cover removed, expansion cards are easily installed without cumbersome cables to contend with.
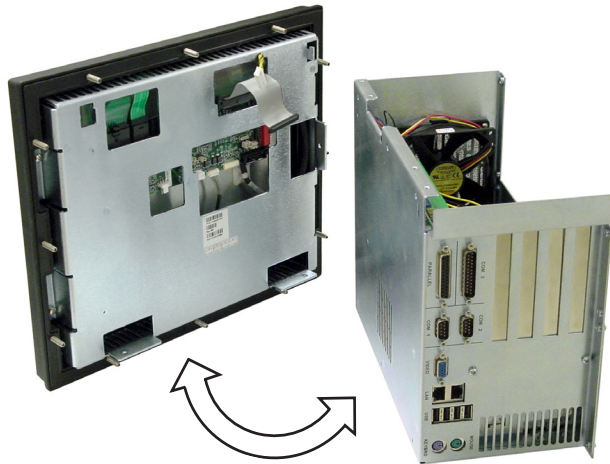
EASILY REPLACEABLE HARD DRIVE

The 4612 & 4615 units have incorporated a simple to access hard drive mount. Simply loosen 2 captive screws and extract the hard drive. No cables to install or connect; simply plug in the new drive. Optional dual hard drives or RAID-enabled configurations are also available.

STORAGE OPTIONS

The 4600 series offers several data storage options. The standard unit contains a single Serial ATA hard drive. Dual drives are optional, as well as a RAID-Enabled configuration. Also, the externally accessible Type I/II CompactFlash can be used to further enhance your storage capabilities. The CompactFlash can be ordered with the operating system pre-loaded for a solid state alternative. The 4600 series offers a read-only CD-ROM, (or optional CD-R/W with DVD-Read capability), a DVD-R/W, or a floppy for your choice of removable media drives. In addition, the 4 USB 2.0 ports (one additional 1.1 compliant port on front of KPM units) can be utilized to add many commercially available external devices.

Externally Accessible CompactFlash™
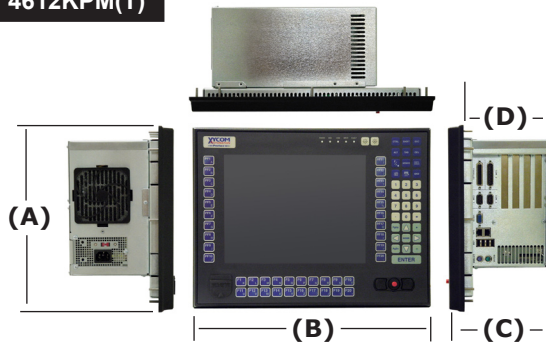
PRODUCT DIMENSIONS AND CONFIGURATIONS

4612T
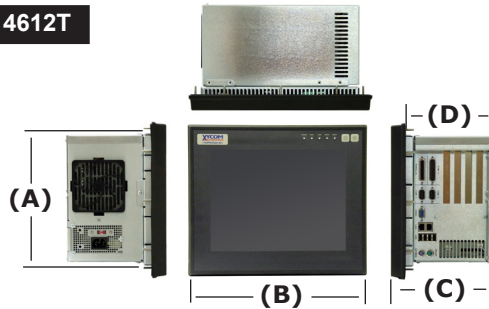
4612 Unit Dimensions

| Model	4612T	4612KPM(T)
Height (A)	11.00" (279.4 mm)	12.45" (316.2 mm)
Width (B)	13.00" (330.2 mm)	16.70" (424.2 mm)
Depth (C)	7.4" (187.0 mm)	7.4" (187.0 mm)
Mounting Depth (D)	6.32" (160.5 mm)	6.36" (161.5 mm)
Weight	22 lbs (10 kg)	24 lbs (10.9 kg)

4612KPM(T)

4612 Configurations

Display	12.1" LCD color display, 800 x 600 (SVGA), 300 nits
Operator Input	Analog resistive touchscreen (**4612T**) Reprogrammable 74-position keypad and indus trial mouse (Touchscreen optional) (**4612KPM**(**T**))
Processors	Intel® Celeron® M 1.3 GHz or optional Pentium M
Preloaded OS	Windows® XP or Windows® 2000 (multi-language)
Expansion	One (8.0" max.) PCI, two (9.0" max.) PCI, and one (9.0" max.) PCI or ISA

4615T
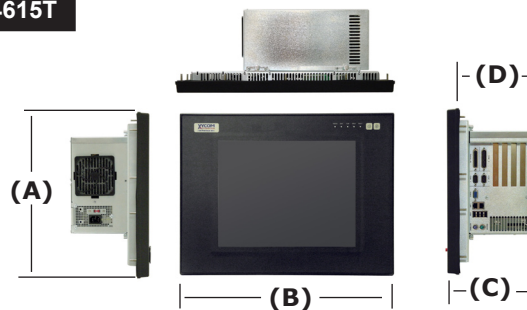
4615 Unit Dimensions

| Model	4615T	4615KPM(T)
Height (A)	12.62" (320.5 mm)	13.97" (354.8 mm)
Width (B)	16.59" (421.4 mm)	19.00" (482.6 mm)
Depth (C)	7.59" (192.8 mm)	7.64" (194.0 mm)
Mounting Depth (D)	6.59" (167.4 mm)	6.60" (167.6 mm)
Weight	25 lbs (11.34 kg)	27 lbs (12.4 kg)

4615KPM(T)
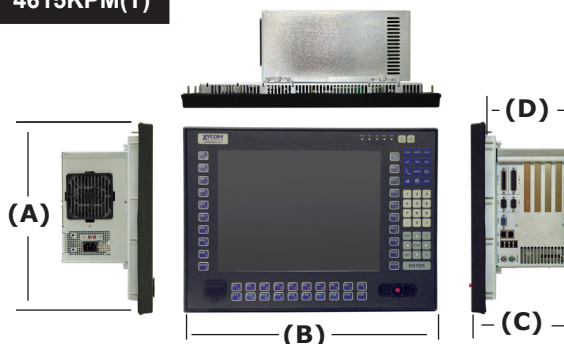
### 4615 Unit Configuration

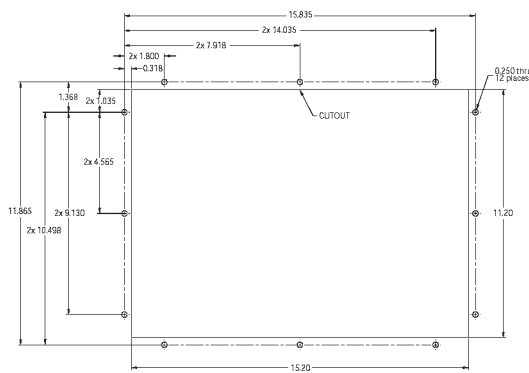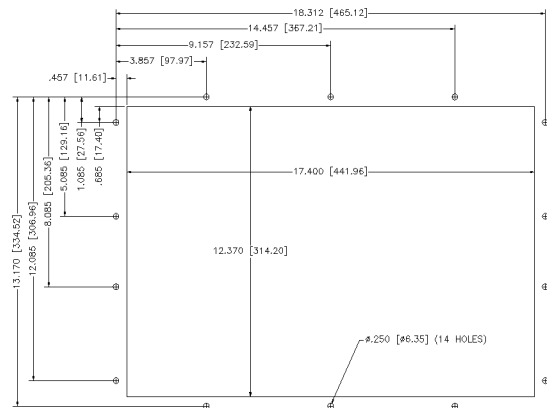|	
Display	15.0" LCD color display, 1024 x 768 (XGA), 300 nits
Operator Input	Analog resistive touchscreen (**4615T**) Reprogrammable 74-position keypad and industrial mouse (**4615KPM**(**T**))
Processors	Intel® Celeron® M 1.3 GHz or optional Pentium M
Preloaded OS	Windows® XP or Windows® 2000 (multi-language)
Expansion	One (8.0" max.) PCI, two (9.0" max.) PCI, and one (9.0" max.) PCI or ISA

PRODUCT MOUNTING

4612T Cutout
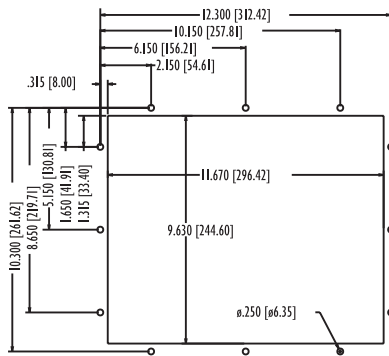
4612KPM(T) Cutout
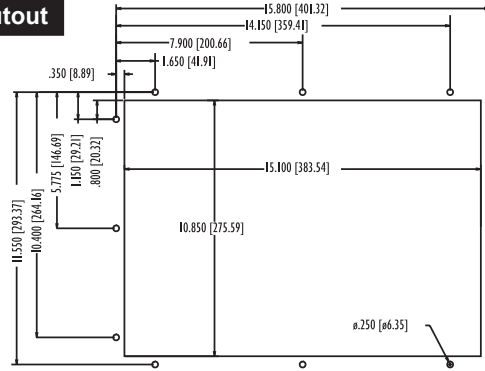
4615T Cutout

4615KPM(T) Cutout

PRODUCT SPECIFICATIONS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

Power Supply	250 Watt AC
AC Power	100-240 VAC, 50-60 Hz, **4612** - 78 Watt nominal power [†] **4615** - 88 Watt nominal power [†]
Available Expansion Power	+3.3V 4.0A maximum +5V 4.0A maximum -5V 160mA maximum +12 3.0A maximum -12 240mA maximum

† Nominal power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

PRODUCT RATINGS

Compliance

Regulatory Compliance	**Safety Agency Approvals**	**Front Panel**

Regulatory Compliance

CE
- EN 55022: Class A
- EN 61000-6-2
- EN 61000-3-2, Class A
- EN 61000-3-3
- IEC 60950-1

FCC
- 47 CFR, Part 15, Class A

Safety Agency Approvals

UL
- UL 508 Listed
- UL 1604 Listed [a]

CUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T6

Front Panel
- NEMA 4/4X/12, IP65

CE (UL) c(UL)

Product certification documentation available at: www.profaceamerica.com/certifications

ORDERING INFORMATION

To create an order number, follow the conventions defined by the example order numbers and product configurations.

Example Order Number

Order Number	Description
4612T-1300-512-CD-XP	4612T with Touchscreen front panel, Intel® Celeron® M 1.3 GHz, (512K Cache, 400 MHz bus), 512 MB DRAM, 80 GB minimum Hard Drive, Rear Access CD-ROM, Windows XP operating system, On-board 10/100 and 10/100/1000 BaseT Ethernet, USB, one (8.0" max.) PCI, two (9.0" max.) PCI, and one (9.0" max.) PCI or ISA available expansion slots.

4612 __ - __ __ __ __ __ __ __

Display and Operator Input
T 12" w/ Touchscreen only
KPM 12" w/ Keypad & Mouse
KPMT 12" w/ Keypad, Mouse, & Touch

CPU
1300 Celeron M 1.3 GHz, 512K Cache, 400 MHz bus
2000 Pentium M 2.0 GHz, 2M Cache, 533 MHz bus

DRAM
-512 512 MB DRAM
-1000 1 GB DRAM
-2000 2 GB DRAM

Internal Hard Drive
Blank Internal 80 GB (min.) Serial ATA Hard Drive
-ND No Internal Hard Drive [a]
-DHD Dual Internal 80 GB (min.) Serial ATA Hard Drives

Rotating Media Drives
-CD Rear Access CD-ROM
Blank No Rear Access CD-ROM
-CDW Rear Access CD-R/W & DVD-Read only [b]
-DVDW Rear Access DVD-R/W Drive [b]

Floppy
Blank No Floppy Installed [c]
-F Rear Access Floppy Installed

Externally Accessible CompactFlash
Blank Nothing Installed
-4GCF 4 GB CompactFlash Installed [d]

Operating System
-XP Pre-Activated Windows XP Professional
-2K Windows 2000 (multi-language)
-NOS No Operating System loaded

Warranty Information
The 4612 series carries a two-year parts & labor warranty.

[a] 4GB CompactFlash option must be chosen when selecting the -ND option. [b] When ordering CDW or DVDW options and No Operating System all required drivers will not be loaded and devices will not function properly. [c] When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive. [d] When ordering CompactFlash and no internal hard drive the operating system will be loaded on the CompactFlash. This is not recommended when applications are storing data.

Important Notice for XP configurations: Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of this computer, or may be completed by Internet or telephone (toll charges may apply).

Example Order Number

Order Number	Description
4615T-1300-512-CDF-XP	4615T with Touchscreen front panel, Intel® Celeron® M 1.3 GHz, (512K Cache, 400 MHz bus), 512 MB DRAM, 80 GB minimum Hard Drive, Rear Access CD-ROM Windows XP operating system, On-board 10/100 and 10/100/1000 BaseT Ethernet, USB, one (8.0" max.) PCI, two (9.0" max.) PCI, and one (9.0" max.) PCI or ISA available expansion slots.

4615 __ - __ __ __ __ __ __ __

Display and Operator Input
T   15" w/ Touchscreen only
KPM   15" w/ Keypad & Mouse
KPMT   15" w/ Keypad, Mouse, & Touch

CPU
1300   Celeron M 1.3 GHz, 512K Cache, 400 MHz bus
2000   Pentium M 2.0 GHz, 2M Cache, 533 MHz bus

DRAM
-512   512 MB DRAM
-1000   1 GB DRAM
-2000   2 GB DRAM

Internal Hard Drive
Blank   Internal 80 GB (min.) Serial ATA Hard Drive
-ND   No Internal Hard Drive [a]
-DHD   Dual Internal 40 GB (min.) Serial ATA Hard Drives

Rotating Media Drives
-CD   Rear Access CD-ROM
Blank   No Rear Access CD-ROM
-CDW   Rear Access CD-R/W & DVD-Read only [b]
-DVDW   Rear Access DVD-R/W Drive [b]

Floppy
Blank   No Floppy Installed [c]
-F   Rear Access Floppy Installed

Externally Accessible CompactFlash
Blank   Nothing Installed
-4GCF   4 GB CompactFlash Installed [d]

Operating System
-XP   Pre-Activated Windows XP Professional
-2K   Windows 2000 (multi-language)
-NOS   No Operating System loaded

[a] 4GB CompactFlash option must be chosen when selecting the -ND option. [b] When ordering CDW or DVDW options and No Operating System all required drivers will not be loaded and devices will not function properly. [c] When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive. [d] When ordering CompactFlash and no internal hard drive the operating system will be loaded on the CompactFlash. This is not recommended when applications are storing data.

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Warranty Information
The 4615 series carries a two-year parts & labor warranty.

Customer Service Hotline: 734.944.0482

Pro-face America
Phone: 734.429.4971
Fax: 734.429.1010
www.profaceamerica.com

For more information
ACCESS   www.profaceamerica.com

Pro-face

4715 Industrial PCs

DS-471500(A)

with Integrated 15.0" LCD Displays

CE cUL UL

Xycom Automation's newest generation of industrial PCs are designed and tested for the tough environments required for plant floor use. Our standard PC configurations meet the strict specifications required for use in hazardous locations and Europe's CE mark. Based on CPU boards designed specifically for industrial automation, these systems provide the capabilities required by demanding applications. With an installed base of over 300,000 systems, our industrial PC products are successfully applied in manufacturing and process environments world-wide.

FEATURES

- 15.0" XGA TFT color flat panels
- Reprogrammable keypad with integrated mouse, touchscreen only, or both
- Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus (optional Pentium® M 2.0 GHz, 2M cache, 533 MHz system bus)
- Up to 2 GB DRAM (512 MB standard)
- 40 GB minimum Serial ATA hard drive (optional dual hard drives)
- 4X AGP graphics with 32 MB video memory (shared with system memory)
- Four available full length expansion slots:
    - ◆ Three PCI expansion slot;
    - ◆ One PCI or ISA expansion slot
- 10/100, and 10/100/1000 Base-T Ethernet
- 4 USB 2.0 compliant ports (one additional 1.1 compatible port on front of KPM units)
- Three Serial Ports:
    - ◆ 2 RS-232;
    - ◆ 1 Selectable RS-232/422/485
- Rear accessible Type I/II CompactFlash™ socket
- CD-ROM (optional CD-R/W with DVD-read-only, DVD-R/W, and floppy)
- NEMA 4/4x/12 front panel
- UL, cUL, CE approvals
- UL listed for hazardous locations: Class I Division 2, Groups A, B, C, D; Class II Division 2, Groups F and G
- Windows® XP or 2000 operating system
- 100-240 VAC power supply (optional 24 VDC)
- 2-year warranty included

Higher Performance, Lower Power

The 4715 series utilizes an Intel mobile processor providing superior processing power while utilizing half the wattage of a comparable Pentium 4 processor. The optional Pentium M 2.0 GHz processor (2 M Cache & 533 MHz system bus) outperforms a desktop Pentium 4, 2.4 GHz (512 K Cache & 533 MHz bus) while utilizing less than half the wattage. With less wattage input the ambient operating temperature is more easily maintained, possibly without the need for expensive enclosure cooling devices. This makes the 4715 series ideal for applications which require a NEMA sealed enclosure.

Easy-to-Read Display

The 4715 series units utilize a bright 15.0" XGA (1024 x 768) resolution TFT LCD display. In addition the 4715 units automatically share up to 32 MB system RAM to allow full 32-bit color depth and fast 3D rendering.

Fits Your Needs

The 4715 series can be configured many different ways. With four available expansion slots many cost effective, industry standard options are easily integrated. The optional dual hard drive, externally accessible CompactFlash, or RAID-enabled configuration provides the storage solution you require. Additionally the CD-ROM can be upgraded to CD-R/W or DVD-R/W providing even more storage and

backup options.

Meets High Standards

To survive on the plant floor the 4715 series meets FCC, UL, cUL, and European CE mark requirements for industrial automation equipment. Xycom Automation Industrial PCs lead the industry in reliability, service, and support with an optional five-year warranty available.

Pro-face®
XYCOM™

SERVICEABILITY

The 4715 series CPU section easily removes from the front panel and display unit without having to detach the front panel from the NEMA enclosure. The rear CPU section can be replaced with another very quickly. With the cover removed, expansion cards are easily installed without cumbersome cables to contend with.
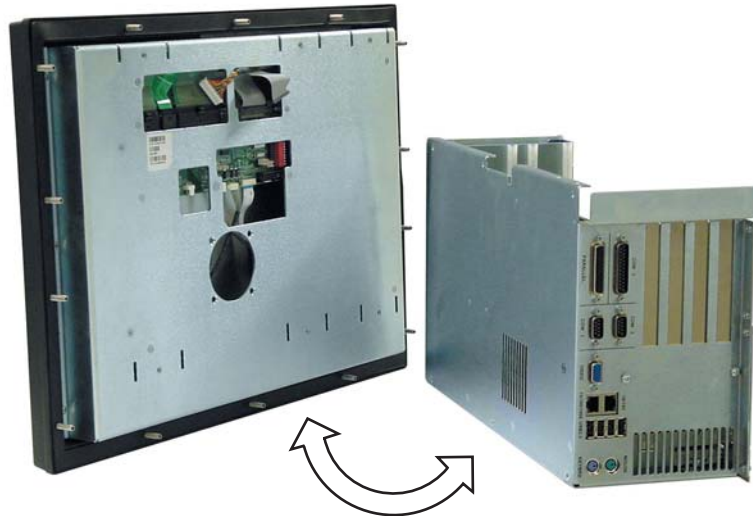
EASILY REPLACEABLE HARD DRIVE

The 4715 units incorporates a simple to access hard drive mount. Simply loosen 2 captive screws and extract the hard drive. No cables to install or connect; simply plug in the new drive. Optional dual hard drives or RAID-enabled configurations are also available.

STORAGE OPTIONS

The 4715 series offers several data storage options. The standard unit contains a single Serial ATA hard drive. Dual drives are optional, as well as a RAID-Enabled configuration. Also, the externally accessible Type I/II CompactFlash can be used to further enhance your storage capabilities. The CompactFlash can be ordered with the operating system pre-loaded for a solid state alternative. The 4715 series offers a read-only CD-ROM, (or optional CD-R/W with DVD-Read capability), a DVD-R/W, or a floppy for your choice of removable media drives. In addition, the 4 USB 2.0 ports (one additional 1.1 compliant port on front of KPM units) can be utilized to add many commercially available external devices.

Externally Accessible CompactFlash™
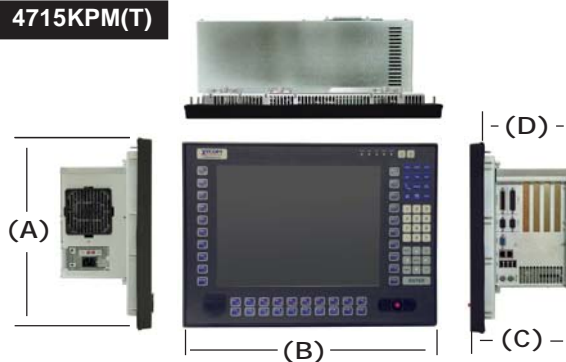
PRODUCT DIMENSIONS AND MOUNTING

4715(T)
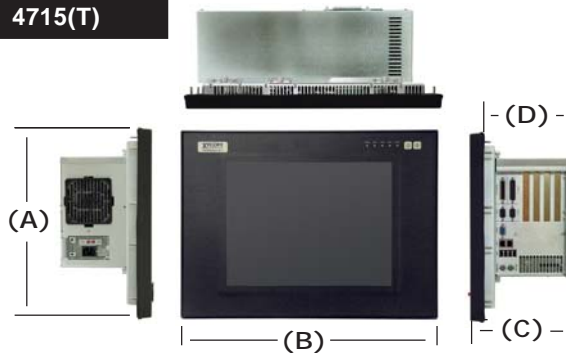
4715KPM(T)

4715 Unit Dimensions

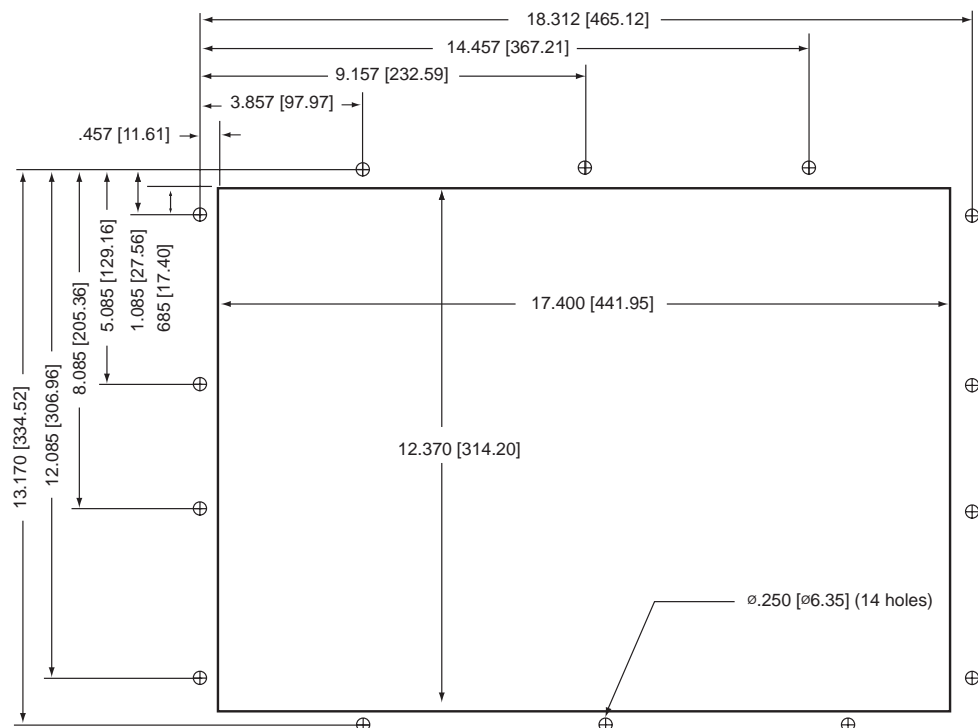| Model	4715T	4715KPM(T)
Height (A)	13.97" (354.8 mm)	13.97" (354.8 mm)
Width (B)	19.00" (482.6 mm)	19.00" (482.6 mm)
Depth (C)	7.64" (194.0 mm)	7.64" (194.0 mm)
Mounting Depth (D)	6.60" (167.6 mm)	6.60" (167.6 mm)
Weight	27 lbs (12.4 kg)	27 lbs (12.4 kg)

4715 Unit Configuration

Display	15.0" LCD color display, 1024 x 768 (XGA)
Operator Input	Analog resistive touchscreen (**4715T**) Reprogrammable keypad and industrial mouse (**4715KPM(T)**)
Processors	Intel® Celeron® M 1.3 GHz, 512 cache, 400 MHz system bus (optional Pentium® M 2.0 GHz, 2M cache, 533 MHz system bus)
Preloaded OS	Windows® XP or Windows® 2000 (multi-language)
Expansion	Three PCI full length expansion slots, One PCI or ISA full length expansion slot

PRODUCT MOUNTING

4715T and 4715KPM(T) Cutout

Page 3

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0°C to 50°C	-20°C to 60°C
Humidity	20% to 80% RH, noncondensing	20% to 80% RH, noncondensing
Shock [a]	15g peak acceleration, 11 msec duration	30g peak acceleration, 11 msec duration
Vibration 5-2000 Hz [a]	.006" peak to peak displacement 1.0g maximum acceleration	.015" peak to peak displacement 2.5g maximum acceleration
Altitude [b]	Sea level to 10,000 ft.	Sea level to 40,000 ft.

[a] These values are with solid state hard drives and not rotating media drives.
[b] Consistent with internal component specifications.

Electrical

	AC	DC
Power Supply	250 Watt AC 100-240 VAC, 50-60 Hz, 88 Watt nominal power [†]	24 VDC 19-36 VDC, 68 Watts nominal power [†]
Available Expansion Power	+3.3V 4.0A maximum +5V 4.0A maximum -5V 160mA maximum +12 3.0A maximum -12 240mA maximum	+3.3V 4.0A maximum +5V 4.0A maximum -5V 160mA maximum +12 3.0A maximum -12 240mA maximum

[†] Nominal power is measured for a base configuration only. Any additional expansion and/or devices will increase the input power required.

Compliance

Regulatory Compliance

CE
- EN 55022: Class A
- EN 61000-6-2
- EN 61000-3-2, Class A
- EN 61000-3-3
- IEC 60950-1

FCC
- 47 CFR, Part 15, Class A

Safety Agency Approvals

CUL
- UL 508 Listed
- UL 1604 Listed [a]

CUL
- CSA-C22.2, #142 Listed
- CSA-C22.2, #213 Listed [a]

[a] Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G; Temp. Code: T6

Front Panel

- NEMA 4/4X/12, IP65

Product certification documentation available at:
www.xycom.com/certifications

Example Order Number

Order Number	Description
4715T-1300-512-CD-XP	4715T with Touchscreen front panel, Intel® Celeron® M 1.3 GHz, (512K Cache, 400 MHz bus), 512 MB DRAM, 40 GB minimum Hard Drive, Rear Access CD-ROM, Windows XP operating system, On-board 10/100 and 10/100/1000 BaseT Ethernet, and USB, three PCI full length expansion slots, and one PCI or ISA full length expansion slot.

4715 __ - __ __ __ __ __ __ __ __ __

Display and Operator Input
T   15" w/ Touchscreen only
KPM   15" w/ Keypad & Mouse
KPMT   15" w/ Keypad, Mouse, & Touch

CPU
1300   Celeron M 1.3 GHz, 512K Cache, 400 MHz bus
2000   Pentium M 2.0 GHz, 2M Cache, 533 MHz bus

DRAM
-512   512 MB DRAM
-1000   1 GB DRAM
-2000   2 GB DRAM

Power Supply
Blank   AC Power Supply
-24V   24 VDC Power Supply

Internal Hard Drive
Blank   Internal 40 GB (min.) Serial ATA Hard Drive
-ND   No Internal Hard Drive [a]
-DHD   Dual Internal 40 GB (min.) Serial ATA Hard Drives

Rotating Media Drives
-CD   Rear Access CD-ROM
Blank   No Rear Access CD-ROM
-CDW   Rear Access CD-R/W & DVD-Read only [b]
-DVDW Rear Access DVD-R/W Drive [b]

Floppy
Blank   No Floppy Installed [c]
-F   Rear Access Floppy Installed

Externally Accessible Compact Flash
Blank   Nothing Installed
-4GCF   4 GB CompactFlash Installed [d]

Operating System
-XP   Pre-Activated Windows XP Professional
-2K   Windows 2000 (multi-language)
-NOS   No Operating System loaded

[a] 4GB CompactFlash option must be chosen when selecting the -ND option. [b] When ordering CDW or DVDW options and No Operating System all required drivers will not be loaded and devices will not function properly. [c] When ordering a unit with no floppy operating system recovery will not be possible without adding an external USB floppy drive. [d] When ordering CompactFlash and no internal hard drive the operating system will be loaded on the CompactFlash. This is not recommended when applications are storing data.

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Warranty Information
The 4715 series carries a two-year parts & labor warranty.

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