

OpenCLIENT™ Industrial Windows® Terminals and Nodes

DS-370040(F)



FEATURES

- Enabled by ACP ThinManager™ (ThinManager sold separately)
- 8.4" & 10.4" color flat panel display terminals or non-integrated display nodes
- Reprogrammable keypad or analog resistive touchscreen
- Built-in PCI 10/100 BaseT Ethernet
- PC/104 expansion up to two standard cards (only one on 1300 models)
- NS Geode GX1 300 MHz processors
- 128 MB DRAM
- Parallel, RS-232 and RS-485, PS/2 mouse and keyboard, and VGA ports
- NEMA 4/4X/12 front panel (units with integrated displays)
- UL listed for hazardous locations: Class I, Division 2, Groups A, B, C, D (1401, 1300HAZ - not 1300 non-HAZ models, 33XX); Class II Division 2, Groups F and G (33XX)

OpenCLIENT™ Terminals & Nodes are industrially hardened platforms used for terminal server network applications. OpenCLIENT™ terminals are designed to support ACP's ThinManager server software. Several OpenCLIENT™ models are available based on your screen size and resolution requirements.

Each OpenCLIENT™ runs what looks like a full Windows operating system. The server runs a standard version of a Microsoft® operating system designed for thin clients (Windows® NT Server, Windows® 2000 Server, or Windows® 2003 Server) that allows users to log in and establish a full Windows® session running on the server. Multiple users

can repeat this process concurrently many times. Each user gets a dedicated share of memory and access to the server's applications.

When an OpenCLIENT™ terminal is powered up it logs on to the server just as a terminal would log on to a main-frame. In addition to giving the client access to its resources, the server also creates a virtual display, which is transferred to the OpenCLIENT™ terminal via an Ethernet link. The OpenCLIENT™ also takes input from the user (via the keypad, keyboard, mouse, or touchscreen) and sends it back to the server over the same link. This allows a user to control the Windows® session as if it were running locally.

While it appears that the control screens are running locally, they are actually running on the server in the climate controlled IT department. The client's session is configured just like any Windows session - the operator can either see a standard Windows screen (with the Internet Explorer icon, the Recycle Bin, the Start Menu, etc.) or a "locked down" version with limited functionality. For dedicated lines running an HMI or SCADA package, the session is usually set to start up with the HMI display exclusively.



Reduced Maintenance Costs

Because all programs are centrally stored in the server, you can simply upgrade to the latest version of software, make any changes needed to the screens (one time, on the server) and every client in the factory is running the latest code with the updated screens.

The OpenCLIENT™ is a solid, rugged piece of equipment, with no moving parts of any kind, greatly increasing its MTBF. If the device is accidentally destroyed however, the program continues to run on the server and the application data is unaffected. To replace a damaged unit, the operator plugs in a replacement OpenCLIENT™ and turns it on. Once the client boots, it displays the same screen as the previous client. OpenCLIENT™s can be powered down and back up at any time without the risk of data loss or damage to the disk directory structure.

Enhanced Security

If an operator powers down a traditional PC while it is running there is a good chance that it will go through a disk checking procedure at startup. At that time it can be halted or restarted to gain control. A malicious operator could insert a boot disk and restart the PC to add his own programs, or worse enter setup mode during the power-up sequence. The OpenCLIENT™ avoids both of these weaknesses. It has no disk drives and does not go through the traditional PC power-up sequence.

Simplified Fault Tolerance

If a plant using individual Industrial PCs is really concerned with redundancy or fault tolerance, they must invest money to add special features to every PC in their plant. With a thin client system the IT department simply makes the server redundant and all clients linked to that server become redundant as well.

Thin Client Management Software

ThinManager™ software is as easy to read as it is to use. Administrators can simply glance at the management screen and see which terminals are online. They can create a new terminal, or replace a damaged terminal. With ThinManager™'s "Default" and "AutoCreate" features, any terminal that has not been booted from that server before can be automatically

created and logged in using the parameters of the Default terminal. Clients can therefore be replaced and added directly from the floor without visiting the server. Clients at different locations frequently have different functions, requiring different configurations. If an OpenCLIENT™ must be reconfigured, the system administrator can restart it from the management interface. Since the client's software is running on the server, this will not affect the operation of any applications that are being displayed on the client.

OpenCLIENT™ terminals running the same application may have similar characteristics. In this case, terminals can be grouped together to provide a visually useful method of checking on the status of all of the clients in that group. Terminals added to the group will inherit all of the group's settings. Grouping terminals also makes it easy to apply configuration changes to every member of the group.

Special Features for Industrial Applications

OpenCLIENT™ workstations also support industry specific protocols including DeviceNet, Profibus and high-speed serial ports. The ThinManager™ software will detect the OpenCLIENT™'s model number and build a basic set of modules to support its features. Settings are saved in a file on the server so wherever these OpenCLIENT™ terminals are installed they will always receive the correct software during boot up.

Flat Panel Monitor Connectivity

OpenCLIENT™ Nodes (1300 and 1401 models) support connectivity to Xycom Flat Panel Monitors creating a complete industrial solution.



Consult www.xycom.com or contact your local Xycom representative for more details on available monitors.

LIGHT-DUTY 1300 PRODUCT CONFIGURATION



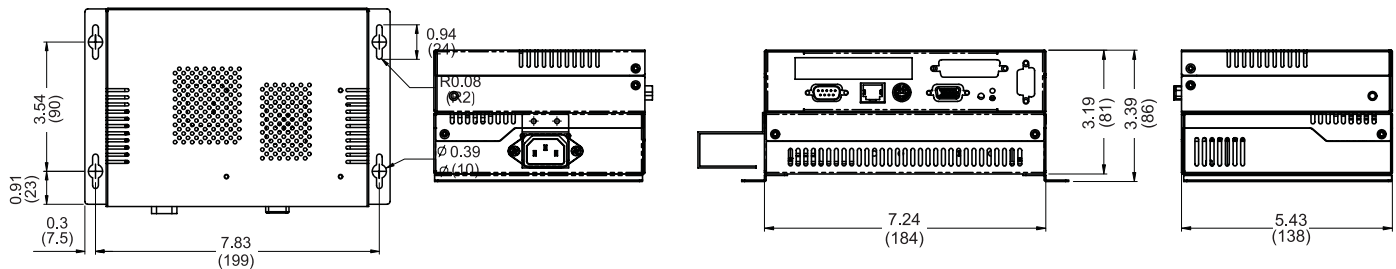
Model	1300 Node
Processor	NS Geode GX1300 MHz
System RAM	128 MB
Integrated Video Connector	
Supports:	VGA (640 x 480) SVGA (800 x 600) XGA (1024 x 768) SXGA (1280 x 1024, 256 colors max)
Ethernet	Built-in 10/100 BaseT
Expansion	PC/104 expansion (1 card only)

LIGHT-DUTY 1300HAZ PRODUCT CONFIGURATION



Model	1300HAZ Node
Processor	NS Geode GX1300 MHz
System RAM	128 MB
Integrated Video Connector	
Supports:	VGA (640 x 480) SVGA (800 x 600) XGA (1024 x 768) SXGA (1280 x 1024, 256 colors max)
Ethernet	Built-in 10/100 BaseT
Expansion	PC/104 expansion (1 card only)

1300 and 1300HAZ Product Dimensions



All dimensions are in inches [millimeters]

HEAVY-DUTY 1401 "NODE" CONFIGURATION



Model	1401 Node
Processor	NS Geode GX1 5x86 300 MHz
System Ram	128 MB
Integrated Video Connector	
Supports:	VGA (640 x 480) SVGA (800 x 600) XGA (1024 x 768) SXGA (1280 x 1024)
Ethernet	Built-in 10/100 BaseT
Expansion	PC/104 expansion (up to two cards)

For further product details, consult the 1401 datasheet available at www.xycom.com

3300 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
Processor	NS Geode GX1 300 MHz	NS Geode GX1 300 MHz
System RAM	128 MB	128 MB
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)

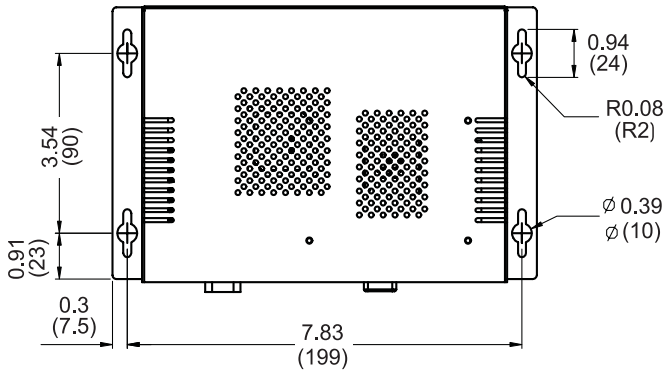


Model	3310KP(T)	3310T
Display	10.4" flat panel color display, 640 x 480 (VGA)	10.4" flat panel color display, 640 x 480 (VGA)
Operator Input	63-position keypad (touchscreen option)	Analog resistive touchscreen
Processor	NS Geode GX1 300 MHz	NS Geode GX1 300 MHz
System RAM	128 MB	128 MB
Ethernet	Built-in 10/100 BaseT	Built-in 10/100 BaseT
Expansion	PC/104 expansion (up to two cards)	PC/104 expansion (up to two cards)

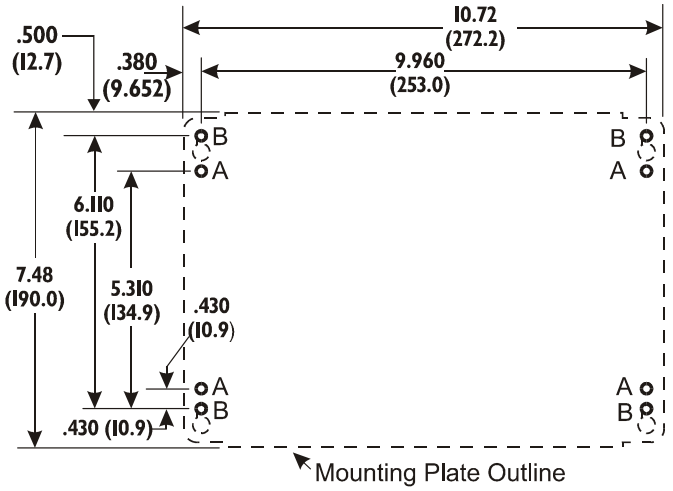
For further product details, consult the 3300 datasheet available at www.xycom.com

CUTOUTS & MOUNTING DIMENSIONS

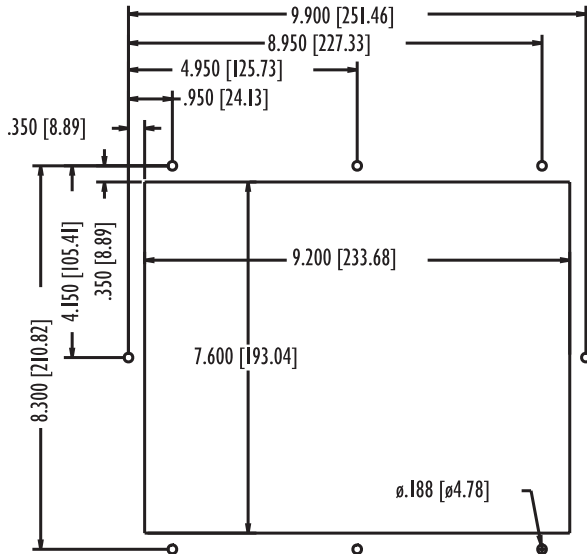
1300 & 1300HAZ



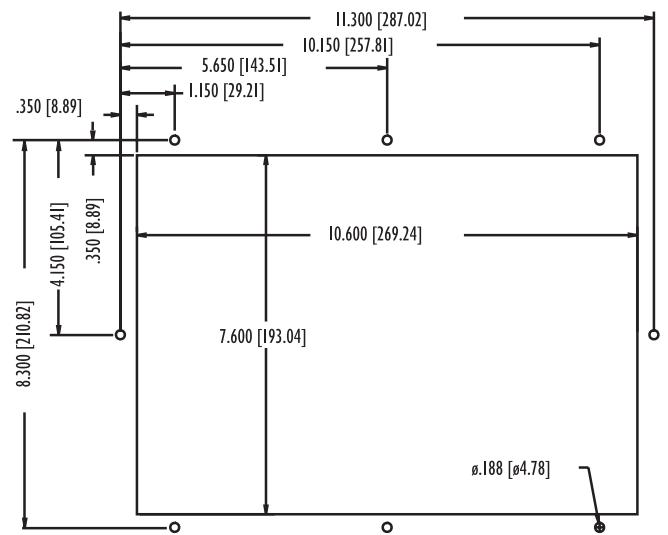
1401



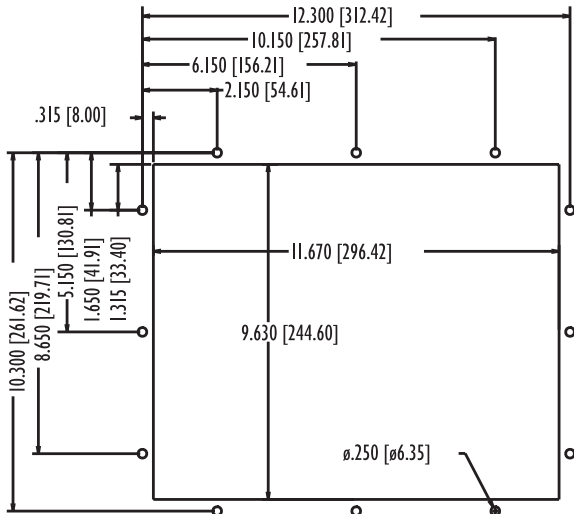
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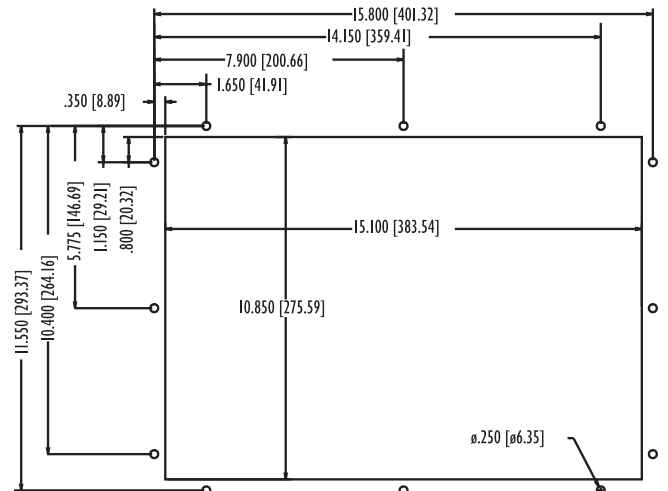
3308KP



3310T



3310KP(T)



All dimensions are in inches [millimeters]

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	.006" peak to peak displacement	.015" peak to peak displacement
5-2000 Hz ^a	1.0g maximum acceleration	2.5g maximum acceleration
Altitude ^b	Sea level to 10,000 ft.	Sea level to 40,000 ft.

^aThese values are with solid state hard drives and not rotating media drives.

^bConsistent with internal component specifications.

Electrical

	1300 & 1300HAZ	1401	3308	3310
Power Supply	55 Watt power	40 Watt power	40 Watt power	40 Watt power
AC Power	100-240V AC wide ranging, 50/60 Hz, 0.5 A (maximum) 21 W nominal ^c	100-240V AC wide ranging, 50/60 Hz, 1 A (maximum) 22 W nominal ^c	100-240V AC wide ranging, 50/60 Hz, 1 A (maximum) 22 W nominal ^c	100-240V AC wide ranging, 50/60 Hz, 1 A (maximum) 24 W nominal ^c
DC Power	18-32V DC, 24V nominal 0.9 A (max) 21 W nominal ^c	18-30V DC, 24V nominal 3.6 A (max) 22 W nominal ^c	18-30V DC, 24V nominal 3.6 A (max) 22 W nominal ^c	18-30V DC, 24V nominal 3.6 A (max) 24 W nominal ^c

^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:	FCC:	Front Panel
<ul style="list-style-type: none"> EN 55022, Class A EN 61000-6-2 EN 61000-3-2, Class A EN 61000-3-3 IEC 60950-1 	<ul style="list-style-type: none"> 47 CFR, Part 15, Class A 	<ul style="list-style-type: none"> NEMA 4/4X/12 IP65 (units with integrated displays)

Safety Agency Approvals

	1300	1300HAZ	1401	3300
UL	UL 508 Listed	UL 508 Listed UL 1604 Listed ^d	UL 508 Listed UL 1604 Listed ^d	UL 508 Listed UL 1604 Listed ^e
cUL	CSA-C22.2, #142 Listed	CSA-C22.2, #142 Listed CSA-C22.2, #213 Listed ^d	CSA-C22.2, #142 Listed CSA-C22.2, #213 Listed ^d	CSA-C22.2, #142 Listed CSA-C22.2, #213 Listed ^e
Temp. Code	T6	T6	T4A	T4A

^d Class I Division 2, Groups A, B, C, D.

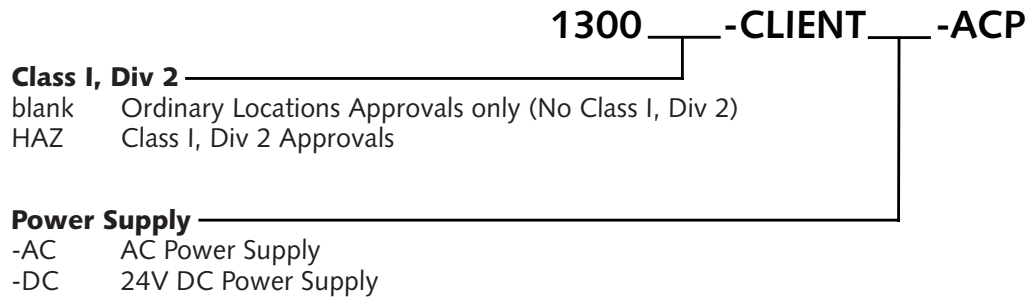
^e Class I Division 2, Groups A, B, C, D; Class II, Division 2, Groups F and G.

ORDERING INFORMATION

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

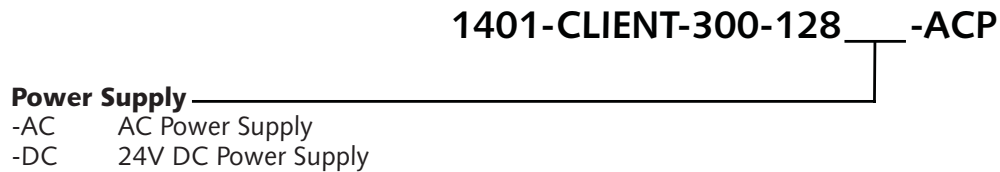
Example Order Number	Description
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1300-CLIENT-AC-ACP	OpenCLIENT 1300 Industrial ThinCLIENT Node with 128 MB SDRAM.
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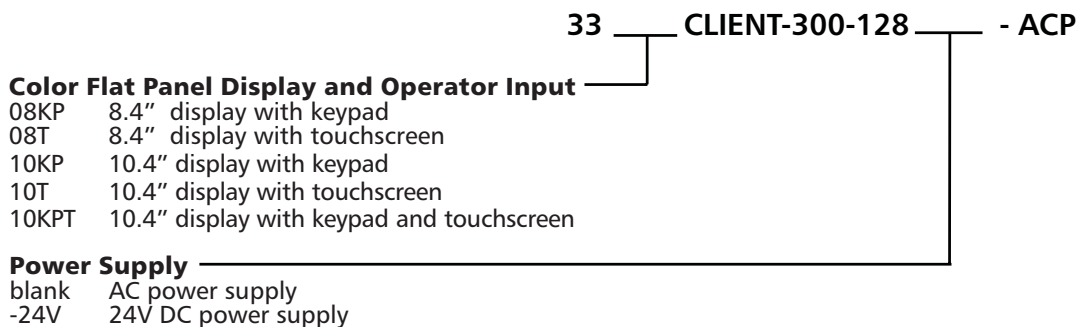
Example Order Number	Description
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1401-CLIENT-300-128-ACP	OpenCLIENT 1400 Industrial ThinCLIENT Node with 128 MB DRAM.
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Example Order Number	Description
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3308T-CLIENT-300-128-ACP	OpenCLIENT Terminal with 8.4" color display, analog resistive touchscreen, 128 MB RAM.
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Xycom Automation
734-429-4971
Fax: 734-429-1010
<http://www.xycom.com>

Customer Support Hotline:
734-944-0482



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Light-Duty Industrial
PC Computers

Heavy-Duty Industrial
Flat Panel Monitors

PC Accessories

Heavy-Duty Industrial
PC Computers

Node and Rack Mount
PC Computers

Pro-face



Setting the Standards: New Generations of Industrial PC Technology

profacamerica.com

CELEBRATING
35 Years
of Industrial
Automation
Solutions

Pro-face

Pro-face

Globally Recognized, Globally Supported, Globally Trusted.

- III We are the leading independent global supplier of industrial computing and visualization solutions for automation and manufacturing applications.
- III We continue to set the standards for HMI solutions by offering the industry's most extensive product offerings and the highest levels of connectivity and support.

Pro-face Operator Interfaces



Programmable Graphic HMIs

- III 3.8" to 15" Crisp, Clear HMI Displays
- III TFT, STN Color or Mono Touchscreens
- III Data Sharing & Collection through OPC, DDE, SQL, etc.
- III Web-enabled & Remote Monitoring Capabilities
- III Large Selection of Controller Connectivity
- III Ethernet, USB, RS232, RS422/485 and
- III CompactFlash™ Interfaces
- III Full-featured HMI Screen Editor Software



HMI Logic Controllers

- III 3.8" to 12.1" Dedicated Touchscreen Logic Controllers
- III Supports Local or Distributed I/O Applications
- III Low Cost Stand-Alone or Networked Units
- III TFT Color and Mono Graphics Displays
- III Large Selection of Protocol Connectivity
- III Data Sharing & Collection through CompactFlash™, OPC, DDE, SQL, etc.

Xycom Industrial Computers & Monitors



Industrial Computers

- III 10.4" up to 17" TFT Displays
- III Up to 1280 x 1024 SXGA Resolution
- III Up to Pentium® 4 3.0 GHz
- III Processor Speed
- III UL, cUL HazLoc Approvals
- III NEMA 4/4X/12 Front Panel Ratings
- III Touchscreen and/or Keypads
- III Extensive I/O Connectivity
- III Over 20 years of Cutout Compatibility



Flat Panel Monitors

- II 12.1" up to 19" TFT Displays
- III Up to 1280 x 1024 SXGA Resolution
- III NEMA 4/4X/12 Front Panel Ratings
- III UL, cUL HazLoc Approvals
- III Touchscreen and/or Keypads
- III Adapters for Cutout Compatibility

World-class products, service, support, and reliability.

About Us

We are Pro-face, the **#1 global supplier of Human Machine Interfaces (HMI)**. We offer an extensive line of visualization and control solutions with your choice of PC-based open architecture or dedicated HMI technology. Our product brands include Xycom and Pro-face industrial PC and flat panel monitor solutions, plus an extensive line of Pro-face brand dedicated operator interface touch screens HMI solutions. We offer the industry's most extensive product lines with the highest level of reliability and connectivity.

Value in every unit:

- **Global Support Network** with offices serving over 50 countries
- **Highest Quality** and high reliability IPC and HMI products available
- **Innovative** "Best-in-Class" IPC and operator interface product designs
- **Full Compliance** including RoHS, UL, cUL, CE, NEMA, ISO9000, 14000
- **Investment Protection** - minimizing your product migration costs by maintaining software compatibility and hardware cutout compatibility.



*Celebrating Over 21 Years
of Cutout Compatibility!*

Right Size, Right Technology Solutions

Industrial PC Solutions

Pro-face offers a line of Light Duty industrial PC products, and a Heavy Duty line of industrial PC products, to match your budget and your application environment.

LIGHT-DUTY PC

Offerings include all the features you expect to find in a PC, but are designed for controlled environments with limited shock and vibration and no exposure to extreme temperature variations. These Light Duty PCs are a cost effective solution in matching the right PC to the right application, and helping to stay within your budget.



HEAVY-DUTY PC

Offerings are designed to withstand the rugged environments of a typical industrial automation factory floor environment. Designed for use in high temperature, shock and vibrations environments, these heavy duty PCs offer the longest product availability, and minimizing product changeover and upgrades. These PCs typically include certifications to UL, Class 1 Div 2 hazardous environments, plus an extended 2 year warranty



The following table summarizes the capabilities and recommended industrial environments for Light-Duty Industrial PCs and the more robust Heavy-Duty Industrial PCs.

FEATURE / SPECIFICATION	LIGHT-DUTY OFFERINGS	HEAVY-DUTY OFFERINGS
Keypads	Not Available	Available
NEMA Hosedown (4/4X/12)	May not be Available	Available
Long-term Availability	May not be Available	Available
Extended Operating Temperature (50° C max.)	Not Recommended	Acceptable
High Shock and Vibration	Not Recommended	Acceptable
Approval for Hazardous Locations	Not Available	Available
High Level of Configurability	Not Available	Available
Warranty	1 Year Standard	2 Year Standard

Why Pro-face?

SETTING THE GLOBAL STANDARDS: AN INDUSTRIAL COMPUTER CHECK LIST

A true industrial computer is designed as one from inception, not by adding “hardening” features to an already designed “office-grade” desktop computer. Pro-face industrial computers set the standards for an industrial computer platform.

INDUSTRIAL REQUIREMENTS		PRO-FACE RESPONSE
Resistance to foreign containment penetration	✓	NEMA-rated screens and PCs (4/4X/12) for industrial indoor and outdoor use
For use in Hazardous Locations	✓	UL listed (UL 1604) and cUL listed (CSA 213)
Easy integration into an industrial control panel	✓	UL 508 Listed for inclusion in the UL 508A Control Panel Builders Program
To avoid electromagnetic interference with or from other electrical equipment	✓	Meets FCC 47 CFR, Part 15, Class A and the EU EMC directive (CE)
Environmental (Green) issues	✓	Meets European Union RoHs directives
Reliable operation of operator input components	✓	Membrane keypad units and touch-screen units are designed for use with gloved hands; keypad buttons will exceed one million cycles before failure; most industrial chemicals won't affect touch-screens
One touch operator input capability	✓	Relegendable membrane keypads
Low voltage power sources requirement	✓	Computer may be driven by 24 VDC power
High ambient temperature operating environment	✓	At ambient temperatures up to 50° C all components remain below maximum temperature specifications
Corrosive atmosphere resistance	✓	NEMA-rated, bezel chemical resilience specifications available
Vibration and Shock loading resistance	✓	Our diskless products (no rotating media) exceed industrial shock and vibration requirements
Maximize uptime	✓	Units are “burned-in” at the factory (shock & vibration tested on the line & 24-hour burn-in). ISO 9001:2000 certified; UL, CSA, and CE approvals
Compatibility with legacy products	✓	Units are backward compatible
Software compatibility of new and old equipment	✓	Pro-face strives for compatibility between new and legacy software and hardware - HMI Investment Protection

UL HAZARDOUS LOCATION DEFINITIONS



Most Pro-face computers meet Underwriters Laboratories explosive atmosphere protection tests for Class I and Class II, Division 2 locations.

Class I locations are those that may have airborne flammable gases or vapors in quantities sufficient to produce explosive or ignitable mixtures.

Class II locations are those that are, or may become, hazardous because of the presence of combustible dust.

Division 2 locations are those that are not normally hazardous, but may become hazardous because of a failure or breakdown.



All standard panel-mounted Pro-face industrial computers carry a NEMA 4/4X/12 rating, as well as an IEC 529 IP65 rating that is applied outside of North America, and are CE approved.

NEMA 12 means that an enclosure is dust tight, drip proof, and approved for indoor industrial use.

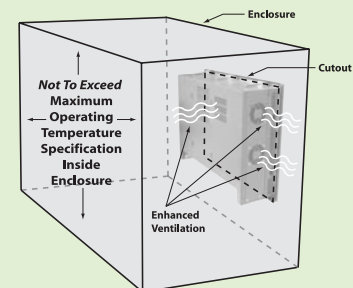
NEMA 4 means that an enclosure is waterproof and approved for outdoor industrial use.

The “X” identifier indicates that the enclosure can be used in areas that contain corrosive materials.

RoHs

Most Pro-face industrial computers and HMI panels meets European Union **RoHs** directives.

TEMPERATURE CONSIDERATIONS



When installing an industrial computer or flat panel monitor into an enclosure, extra care should be exercised to ensure that the ambient air around the unit (inside your enclosure, not outside the enclosure) does not exceed the maximum operating temperature specification for that unit. Exceeding this temperature may cause premature degeneration of the unit.

Consult your enclosure manufacturer for proper sizing and/or cooling options. The Pro-face datasheet for the appropriate unit contains information that your enclosure manufacturer will require. Datasheets can be obtained in the Resource Library at www.profaceamerica.com.

Get more info on these and more products!
Visit www.profaceamerica.com

Light-Duty Industrial PC Computers



1510



3112T



PS3650A



PS3710A



4117T

Brand	Xycom	Xycom	Pro-face	Pro-face	Xycom
Color Flat Panel Display	N/A	12.1" TFT	12.1" TFT	15" TFT	17" TFT
Display Resolution	N/A	800 x 600 SVGA	1024 x 768 XGA	1024 x 768 XGA	1280 x 1024 SXGA
Processor	Intel® Pentium® 4 3.0 GHz	Intel® Celeron® 1200 MHz	Intel® Celeron® M 1.3GHz	Intel® Pentium® M® 1.6GHz	Intel® Pentium® M 1.4 GHz
Memory	512MB to 2GB DRAM	256MB to 512MB DRAM	256MB to 1GB	256MB to 2GB SO-DIMM	512MB to 2GB DRAM
Front Panel Input Device	N/A	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen
Onboard Features	Two USB Ports, Dual 10/100 Mbps Ethernet ports, 4X AGP Graphics Controller, Parallel port, Audio, Two RS-232 ports	Two USB Ports, Three Serial Ports, Audio In/Out/MIC, 10/100 Mbps Ethernet	Five USB Ports, Serial Port, Two Ethernet ports, RAS port, Audio Output	Four USB Ports, Three Serial Ports, Audio In/Out/MIC 1x 10/100 Base-T + 1x GB Ethernet, RAS Port	Two USB 2.0 Ports, Three Serial Ports, Audio In/Out/MIC, 10/100 and 10/100/1000 Base-T Ethernet ports, Parallel, PS/2 keyboard and mouse, 4X AGP Graphics Controller with up to 64MB video RAM
Expansion	Ten slot passive back-plane: Two full length ISA, Three full length PCI; One half length PCI available	Externally Accessible CompactFlash™ Slot	Externally Accessible CompactFlash™ slot, One PCI 2.2 slot (165 mm length), PCI 2.2, One PCMCIA Type III slot	Externally Accessible CompactFlash™ slot, One PCI 2.2 slot (230 mm length), Two PCMCIA Type II slots	One half-length PCI slot, Externally Accessible CompactFlash™ Slot
Storage	IDE Hard Drive	IDE Hard Drive	IDE Hard Drive	IDE Hard Drive	IDE Hard Drive
Removable Media	1.44 MB Floppy Drive CD-R/W w DVD-Read Only	1.44 MB Floppy Drive CD-ROM	USB memory	1.44 MB Floppy Drive CD/DVD Drive USB memory	CD-R/W Drive with DVD Read capability,
Mounting	Wall or Shelf	Panel or Wall	Panel	Panel	Panel or Wall
Operating System	Windows® XP/2000	Windows® 2000/XP	Windows® 2000/XP	Windows® 2000/XP	Windows® XP/2000
Standards & Ratings	UL, cUL, CE, FCC	NEMA 4/4X/12 UL, cUL, CE, FCC	UL, CE, CSA, FCC, RoHs compliant	UL, CE, CSA, FCC, RoHs compliant	NEMA 4/4X/12 UL, cUL, CE, FCC RoHS compliant
Warranty	1 year standard	1 year standard	1 year standard	1 year standard	1 year standard
Options	Flat Panel Monitor DVD-R/W	N/A	Memory, CF card, RS-232/RS485 conversion unit, upgraded HD	Memory, CF Card	DVD-R/W
Height	12.99" / 329.99 mm	10.24" / 260.0 mm	9.41" / 239 mm	12.15" / 308.61 mm	14.0" / 355.6 mm
Width	6.763" / 171.78 mm	13.39" / 340.0 mm	12.31" / 313 mm	16.14" / 409.956 mm	17.8" / 452.1 mm)
Depth	16.06" / 407.9 mm	4.25" / 107.95 mm	4.06" / 103 mm	3.93" / 99.822 mm	5.32" / 135.1 mm
Mounting Depth	See product datasheet for cutout & mounting dimensions at www.profaceamerica.com	3.90" / 99.0 mm	3.86" / 98 mm	3.91" / 99.2 mm	4.93" / 125.2 mm
Weight	24.3 lbs / 11.0 kg	14.5 lbs / 6.58 kg	9.92 lbs / 4.5kg - unit only	Approx. 17.64 lbs / 8kg	29 lbs / 13.15 kg

Get more info on these and more products!
Visit www.profaceamerica.com

Heavy-Duty Industrial PC Computers



3310T



3310KP



4612T



4612KPM

Brand	Xycom	Xycom	Xycom	Xycom
Color Flat Panel Display	10.4" TFT	10.4" TFT	12.1" TFT	12.1" TFT
Display Resolution	640 x 480 VGA	640 x 480 VGA	800 x 600 SVGA	800 x 600 SVGA
Processor	NS Geode GX1 300 MHz	NS Geode GX1 300 MHz	Intel® Celeron® M 1.3 GHz or optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz or optional Pentium® M 2.0 GHz
Memory	128MB to 256MB DRAM	128MB to 256MB DRAM	512MB to 2GB DRAM	512MB to 2GB DRAM
Front Panel Input Device	Analog Resistive Touchscreen	63 Position Keypad	Analog Resistive Touchscreen	Reprogrammable 74-position Keypad and Industrial Mouse
Onboard Features	PCI IDE Controller PCI Video Controller 10/100 Mbps Ethernet	PCI IDE Controller PCI Video Controller 10/100 Mbps Ethernet	4X AGP Graphics Controller Four USB 2.0 Compliant ports 10/100 and 10/100/1000 Base-T Ethernet ports, Two RS-232 ports, One Selectable RS-232/422/485 port	4X AGP Graphics Controller Four USB 2.0 Compliant ports 10/100 and 10/100/1000 Base-T Ethernet ports, Two RS-232 ports, One Selectable RS-232/422/485 port
Expansion	PC/104 (up to two modules)	PC/104 (up to two modules)	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA
Storage	IDE Hard Disk, CompactFlash™ or IDE Solid State Drive	IDE Hard Disk, CompactFlash™ or IDE Solid State Drive	Easily removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily removable Serial ATA Hard Disk, or CompactFlash™ Drive
Removable Media	Optional External Floppy Drive	Optional External Floppy Drive	CD-ROM	CD-ROM
Mounting	Panel	Panel	Panel	Panel
Operating System	MS-DOS® Windows® NT/2000/CE	MS-DOS® Windows® NT/2000/CE	Windows® XP/2000	Windows® XP/2000
Standards & Ratings	NEMA 4/4X/12 IP65 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 IP65 (front panel) CE, FCC, UL, cUL Class 1, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location
Warranty	2-year standard	2-year standard	2-year standard	2-year standard
Options	External Floppy Drive 24V DC Power Supply	External Floppy Drive 24V DC Power Supply Touchscreen (3310KPT)	CD-R/W w DVD-Read Only, DVD-R/W, and floppy Dual hard drives Raid-enabled	CD-R/W w DVD-Read Only, DVD-R/W, and floppy Dual hard drives Raid-enabled, Touchscreen
Height	11.00" / 279.4 mm	12.25" / 311.5 mm	11.00" / 279.4 mm	12.45" / 316.2 mm
Width	13.00" / 330.2 mm	16.50" / 419.1 mm	13.00" / 330.2 mm	16.70" / 424.2 mm
Depth	4.50" / 114.3 mm	4.50" / 114.3 mm	7.4" / 187.0 mm	7.4" / 187.0 mm
Mounting Depth ¹	3.50" / 88.9 mm	3.50" / 88.9 mm	6.32" / 160.5 mm	6.36" / 161.5 mm
Weight	11.0 lbs / 5.0 kg	12.0 lbs / 5.5 kg	22 lbs / 10 kg	24 lbs / 10.9 kg

¹ Consult product datasheet and/or manual for cutout and mounting dimensions.

Heavy-Duty Industrial PC Computers



4615T



4615KPM



4715T



4715KPM

Brand	Xycom	Xycom	Xycom	Xycom
Color Flat Panel Display	15.0" TFT	15.0" TFT	15.0" TFT	15.0" TFT
Display Resolution	1024 x 768 XGA	1024 x 768 XGA	1024 x 768 XGA	1024 x 768 XGA
Processor	Intel® Celeron® M 1.3 GHz or optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz or optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz or optional Pentium® M, 2.0 GHz	Intel® Celeron® M 1.3 GHz or optional Pentium® M 2.0 GHz
Memory	512MB to 2GB DRAM	512MB to 2GB DRAM	512MB to 2GB DRAM	512MB to 2GB DRAM
Front Panel Input Device	Analog Resistive Touchscreen	Reprogrammable 74-position Keypad and Industrial Mouse	Analog Resistive Touchscreen	Reprogrammable 74-position Keypad and Industrial Mouse
Onboard Features	4X AGP Graphics Controller Four USB 2.0 Compliant ports 10/100 and 10/100/1000 Base-T Ethernet ports, Two RS-232 ports, One Selectable RS-232/422/485 port	4X AGP Graphics Controller Four USB 2.0 Compliant ports 10/100 and 10/100/1000 Base-T Ethernet ports, Two RS-232 ports, One Selectable RS-232/422/485 port	4X AGP Graphics Controller Four USB 2.0 Compliant ports 10/100 and 10/100/1000 Base-T Ethernet ports, Two RS-232 ports, One Selectable RS-232/422/485 port	4X AGP Graphics Controller Four USB 2.0 Compliant ports 10/100 and 10/100/1000 Base-T Ethernet ports, Two RS-232 ports, One Selectable RS-232/422/485 port
Expansion	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA	One (8.0" max.) PCI, Two (9.0" max.) PCI, and One (9.0" max.) PCI or ISA	Four available full-length Slots: Three PCI, One PCI or ISA expansion slot	Four available full-length Slots: Three PCI, One PCI or ISA expansion slot
Storage	Easily removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily removable Serial ATA Hard Disk, or CompactFlash™ Drive	Easily removable IDE Hard Disk, or CompactFlash™ Drive
Removable Media	CD-ROM	CD-ROM	CD-ROM	CD-ROM
Mounting	Panel	Panel or Rack	Panel or Rack	Panel or Rack
Operating System	Windows® XP/2000	Windows® XP/2000	Windows® XP/2000	Windows® XP/2000
Standards & Ratings	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 (front panel) CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location
Warranty	2-year standard	2-year standard	2-year standard	2-year standard
Options	CD-R/W w DVD-Read Only, DVD-R/W, and floppy Dual hard drives Raid-enabled	CD-R/W w DVD-Read Only, DVD-R/W, and floppy Dual hard drives Raid-enabled, Touchscreen	24 VDC Power Supply CD-R/W w DVD-Read Only DVD-R/W Drive, and floppy Dual hard drives, RAID-enabled	24 VDC Power Supply CD-R/W w DVD-Read Only, DVD-R/W, and floppy Dual hard drives, RAID-enabled, Touchscreen
Height	12.62" / 320.5 mm	13.97" / 354.8 mm	13.97" / 354.8 mm	13.97" / 354.8 mm
Width	16.59" / 421.4 mm	19.00" / 482.6 mm	19.00" / 482.6 mm	19.00" / 482.6 mm
Depth	7.59" / 192.8 mm	7.64" / 194.0 mm	7.64" / 194.0 mm	7.64" / 194.0 mm
Mounting Depth ¹	6.59" / 167.4 mm	6.60" / 167.6 mm	6.60" / 167.6 mm	6.60" / 167.6 mm
Weight	25 lbs / 11.34 kg	27 lbs / 12.4 kg	27 lbs / 12.4 kg	27 lbs / 12.4 kg

¹ Consult product datasheet and/or manual for cutout and mounting dimensions.

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Heavy-Duty Industrial Flat Panel Monitors



5015T/R2

Sunlight
Readable
SLR



5015SLR



5017T



5019T

NEW



FP3500/FP3600/FP3710

Brand	Xycom	Xycom	Xycom	Xycom	Pro-face
Display Size / Active Area (W x H)	15.0" / 11.97" x 8.98"	15" / 11.97" X 8.98"	17" / 13.30" x 10.64"	19" / 14.82" x 11.85"	10.4" / 8.31" x 6.24" (FP3500) 12.1" / 9.76" x 7.34" (FP3600) 15" / 11.97" x 11.34" (FP3710)
Display Resolution	1024 x 768 XGA	1024 x 768 XGA	1280 x 1024 SXGA	1280 x 1024 SXGA	640 x 480 VGA (FP3500), 800 x 600 SVGA (FP3600), 1024 x 768 XGA (FP3710)
Front Panel Input Device	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen	Analog Resistive Touchscreen
Color Depth	262,000	16.7 million	16.7 million	16.0 million	260,000 (FP3500/3600) 16.7 million (FP3710)
Brightness	350 Nit typical	1200 Nit typical	250 Nit typical	300 Nit typical	350 Nit/300Nit/350 Nit typical
Contrast Ratio	400:1 typical	350:1 typical	400:1 typical	700:1 typical	300:1/450:1/450:1 typical
Backlight Life	50,000 hours	50,000 hours	50,000 hours	50,000 hours	50,000 hours
Horizontal Viewing Angle	150° typical	120° typical	140° typical	160° typical	140°/140°/160° typical
Vertical Viewing Angle	125° typical	100° typical	120° typical	160° typical	140°/140°/150°
Input Voltage	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC
Mounting	Panel or arm	Panel or arm	Panel or arm	Panel or arm	Panel or Wall
Standards & Ratings	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	NEMA 4/4X/12 CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	UL, CSA, CE
Warranty	2-year standard	1-year standard	2-year standard	2-year standard	2 year standard
Options	19" Rack Mount Adapter Stainless Steel Bezel 24 V DC power supply	19" Rack Mount Adapter Stainless Steel Bezel 24 V DC power supply	19" Rack Mount Adapter Stainless Steel Bezel 24 V DC power supply	Stainless Steel Bezel 24 V DC power supply Rack Mount Bezel	Wall mounting adapter & Desktop stand (FP3500/3600) Serial Interface, RGB Analog and USB cables
Height	13.78" / 350.0 mm	13.78" / 350 mm	14.70" / 373.4 mm	15.70" / 398.8 mm	9.57" / 243 mm (FP3500)/ 9.57" / 243 mm (FP3600) 11.57" / 294 mm (FP3710)
Width	16.485" / 418.7 mm	16.485" / 418.7 mm	17.36" / 440.9 mm	18.51" / 470.2 mm	12.48" / 317 mm (FP3500) 12.48" / 317 mm (FP3600) 15.55" / 395 mm (FP3710)
Depth	3.10" / 78.74 mm	3.455" / 87.8 mm	3.10" / 78.74 mm	3.10" / 78.74 mm	2.28" / 58 mm (FP3500) 2.28" / 58 mm (FP3600) 2.36" / 60 mm (FP3710)
Mounting Depth ¹	2.85" / 72.39 mm	3.205" / 81.4 mm	2.85" / 72.39 mm	2.85" / 72.39 mm	1.97" / 50 mm (FP3500/3600) 2.16" / 98 mm (FP3700)
Weight	15.0 lbs / 7.0 kg	22 lbs / 9.0 kg	18.0 lbs / 8.2 kg	21.0 lbs / 9.6 kg	7.7 lb / 3.5kg (FP3500) 7.7 lb / 3.5kg (FP3600) 15.4 lb / 7.0kg (FP3710)

¹ Consult product datasheet and/or manual for cutout and mounting dimensions.



RoHS

Industrial Node and Rack Mount PC Computers



1341



1546



1547



1612/1613/1614

Brand	Xycom	Xycom	Xycom	Xycom
Processor	Intel® Celeron® M 1.3 GHz	Intel® Celeron® M 1.3 GHz, or optional Pentium® M 2.0 GHz	Intel® Celeron® M 1.3 GHz, or optional Pentium® M 2.0 GHz	Intel® Pentium® 4 3.0 GHz
Memory	512MB DRAM	512MB to 2GB DRAM	512MB to 2GB DRAM	256MB to 2GB DRAM
Onboard Features	Four USB 2.0 compliant ports, 10/100 Base-T Ethernet, Parallel, Four RS-232 ports	Four USB 2.0 compliant ports, 10/100, and 10/100/1000 Base-T Ethernet, 4X AGP Graphics Controller with up to 32MB Video RAM	Four USB 2.0 compliant ports, 10/100, and 10/100/1000 Base-T Ethernet, 4X AGP Graphics Controller with up to 32MB Video RAM	Two USB Ports, Dual 10/100 Mbps Ethernet ports, 4X AGP Graphics Controller, Parallel port, Audio, Two RS-232 ports
Expansion	One half-length PCI expansion slot	One (8.0" max.) PCI expansion slot, Two (9.0" max.) PCI expansion slots, One (9.0" max.) PCI or ISA expansion slot	Three PCI and One PCI or ISA full length expansion slots	Fourteen Slot Passive Backplane with up to Seven PCI & 3 ISA available expansion slots
Storage	CompactFlash™ Drive 4GB and 8GB options	Serial ATA Hard Drive or CompactFlash™ Drive	Serial ATA Hard Drive or CompactFlash™ Drive	IDE Hard Drive Three 5.25" Drive Bays
Removable Media	N/A	CD-ROM	CD-ROM	1.44 MB Floppy
Mounting	Wall or Shelf	Wall or Shelf	Wall or Shelf	Rack or Wall (Wall mount with optional brackets)
Operating System	Preloaded with Windows® XP Professional (optional Windows 2000 Professional)	Windows® XP or 2000 operating systems	Windows® XP or 2000 operating systems	Windows® XP or 2000 operating systems
Standards & Ratings	CE, FCC, UL, cUL	CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	CE, FCC, UL, cUL Class 1 & 2, Div 2 Hazardous Location	CE, FCC, UL, cUL
Warranty	2-year standard	2-year standard	2-year standard	2-year standard
Options	9-30 Volt regulated DC input (AC power supply sold separately)	24 VDC Power Supply CD-R/W w DVD-Read Only, DVD-R/W Drive, and floppy, Dual hard drives, RAID-enabled	24 VDC Power Supply CD-R/W w DVD-Read Only, DVD-R/W Drive, and floppy, Dual hard drives, RAID-enabled	CD, CD-R/W, DVD, or DVD-R/W, IDE Removable Hard Drives, Redundant Hot-swappable AC, RAID-enabled
Height	3.75" / 95.25 mm	9.24" / 234.7 mm	9.24" / 234.7 mm	7.0" / 177.8 mm (4U)
Width	8.50" / 215.9 mm	11.47" / 291.3 mm	16.16" / 410.46 mm	19.0" / 482.6 mm
Depth	9.50" / 241.3 mm	5.75" / 146.1 mm	5.75" / 146.1 mm	17.75" / 450.85 mm (1612) 19.75" / 501.65 mm (1613) 22.75" / 577.85 mm (1614)
Weight	12.5 lbs / 5.7kg	13.0 lbs / 7.2 kg	18.0 lbs / 8.2 kg	48.2 lbs / 23.0 kg
Mounting	See product datasheet for cutout & mounting dimensions at www.profaceamerica.com	See product datasheet for cutout & mounting dimensions at www.profaceamerica.com	See product datasheet for cutout & mounting dimensions at www.profaceamerica.com	See product datasheet for cutout & mounting dimensions at www.profaceamerica.com

¹ ThinManager software sold separately by ACP only.



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Accessories



9000-FFK
NEMA 4 sealed panel mount door for front floppy (9000-EXF sold separately) and keyboard access.



9000-USBFA
NEMA 4 sealed panel mount door with USB, floppy (9000-USBF included) and keyboard access (requires Windows® 98, 2000 or XP and USB port).



9000-USBF
USB Floppy for use with Xycom products (requires Windows® 98, 2000 or XP and USB port).



9000-EXF
1.44 MB hot-installable, removable external floppy drive (for use on 33xx Series and 1401 only).



1600-RMS
Rack Mount Slide Rail Kit. For use with 1600 rack mount PC units.



1600-WMB
Wall or Shelf Mount Bracket Kit. For use with 1600 rack mount PC units.

CUTOUT ADAPTER PLATES FOR IPC AND MONITOR PRODUCTS



9000-CAP-3115T/3515

Cutout adapter plate for mounting 3115T or 4115T in an existing 3515, 3535, or 3015 cutout⁶

9000-CAP-3612KPM/9487

Cutout adapter plate for mounting 4612KPM(T) in an existing portrait (947X & 948X) or 9450 cutout⁶

9000-CAP-3612KPM/3515

Cutout adapter plate for mounting 4612KPM in an existing 3515, 3535, or 3015 cutout⁶

9000-CAP-3615T/3515

Cutout adapter plate for mounting 4615T in an existing 3515, 3535, or 3015 cutout⁶

9000-RF1

19" rack mount adapter plate for the 3612T or 4612T

9000-RFC

19" rack mount adapter for use with the 9000-FFK or 9000-USBFA

2005-RMA

19" rack mount adapter plate for the 3310KP(T) or 4612KPM(T)

9457-CAP

Cutout adapter plate for mounting 5015KPM(T), 4615KPM(T), 4715T or 4715KPM(T) in an existing 9457 or 9407 cutout⁶

9000-CAP

Cutout adapter plate for mounting 3310KP(T) — in an existing portrait (947X & 948X) or 9450 cutout⁶

MTG-RM5015/R2

Adapter panel for mounting 5015T/R2 or 5015SLR in 19" rack.

MTG-RM5017

Adapter panel for mounting 5017 in 19" rack. Panel measures 15.7" (9U) in height

MTG-PM5015/3015

Adapter plate for panel mounting a 5015T in place of a 3015. Requires a minimum of 15.4" of vertical panel space⁸

MTG-PM5015-9407

Adapter plate for panel mounting a 5015T in place of a 9407. Requires a minimum of 15.4" of vertical panel space⁸

CABLES FOR FLAT PANEL MONITOR PRODUCTS

VIDEO

3000-CBL-03V (3'/1 m)
3000-CBL-10V (10'/3 m)
3000-CBL-25V (25'/7.5 m)⁴
3000-CBL-50V (50'/15 m)⁴

TOUCHSCREEN¹

CBL-SER03MF (3'/1 m)
CBL-SER10MF (10'/3 m)
CBL-SER25MF (25'/7.5 m)⁴
CBL-SER50MF (50'/15 m)⁴

TOUCHSCREEN²

CBL-SER10FF (10'/3 m)
CBL-SER25FF (25'/7.5 m)
CBL-SER50FF (50'/15 m)

USB TOUCHSCREEN

3000-USB-03AB (3'/1 m)
3000-USB-10AB (10'/3 m)
3000-USB-16AB (16'/5 m)⁵

PS/2 KEYBOARD/MOUSE³

CBL-PS2-10 (10'/3 m)

DIGITAL VIDEO⁷

CBL-DVID10MM (10'/3 m)

¹ For all monitors other than 5015T. ² For use with 5015T monitors only. ³ For KPMT monitors only. ⁴ Consult factory for use with KPMT monitors.
⁵ Not for use with KPMT monitors. ⁶ Can also be utilized as a rackmount adapter. ⁷ Only for monitors with DVI connection.
⁸ Will require use of mounting spacers when used with a 5015T/R2.

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III Xycom industrial computers offer cutout compatibility dating back to the 1970s. This means you can replace an older HMI device with a current Xycom IPC unit – and get all the new capabilities it provides – without altering your machine's original mounting hardware.

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Standard Integration Services

Product Modification

Brand Labeling

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All Pro-face and Xycom brand products are warranted by Pro-face to be free from defects in material and workmanship under normal use and service for the period stated for that particular product. Many of Pro-face's Heavy-Duty Industrial PCs and 5000 Series Flat Panel Monitors come standard with a 2-year warranty, while the Light-Duty PC products carry a 1-year standard warranty. Warranties begin on the date shipped. Verify the stated warranty at time of purchase. Extended warranties are available at time of purchase for a reasonable cost.

For additional information, contact our Customer Care Center at **(734) 944-0482** or at **customer care@profaceamerica.com**

Pro-face

Pro-face America
Saline, MI U.S.A.
Tel: +1 734 429 4971
Fax: +1 734 429 1010
<http://www.profaceamerica.com>
sales.info@profaceamerica.com

Get more info on these and more products!
Visit www.profaceamerica.com

Pro-face America
 750 North Maple Road
 Saline, MI 48176 USA
 Tel: 734-429-4971 or
 Toll Free: 800-AT-XYCOM
 Fax: 734-429-1010
<http://www.profaceamerica.com>
 Email: sales@profaceamerica.com

Customer Care Center:
 Tel: 734-944-0482
 Web Support: <http://support.profaceamerica.com>
 Email: customercare@profaceamerica.com



WORLDWIDE SUPPORT

Global Head Office

Global Head Office
 Digital Electronics Corporation
 Osaka JAPAN
 Tel: +81 (0)6 6613 3116
 Fax: +81 (0)6 6613 5888
<http://www.pro-face.com>
 info@pro-face.com

China

Pro-face China International Trading
 (Shanghai) Co., Ltd.
 Shanghai P. R. CHINA
 Tel: +86 (0)21 6361 5175
 Fax: +86 (0)21 6361 5176
<http://www.proface.com.cn>
 proface@proface.com.cn

South-East Asia Pacific

Pro-face South-East Asia Pacific
 Co., Ltd.
 Bangkok THAILAND
 Tel: +66 (0)2 260 8282
 Fax: +66 (0)2 260 8283
<http://www.proface.co.th>
 support@proface.co.th

South Korea

Pro-face Korea Co., Ltd.
 Seoul SOUTH KOREA
 Tel: +82 (0)2 2630 9850
 Fax: +82 (0)2 2630 9860
<http://www.proface.co.kr>
 proface@proface.co.kr

Taiwan

Pro-face Taiwan Co., Ltd.
 Taipei TAIWAN
 Tel: +886 (0)2 2657 1121
 Fax: +886 (0)2 2657 1021
<http://www.proface.com.tw>
 proface@proface.com.tw

Australia and New Zealand

Pro-face Australia Pty Ltd.
 Melbourne AUSTRALIA
 Tel: +61 (0)3 9550 7395
 Fax: +61 (0)3 9550 7390
<http://www.pro-face.com.au>
<http://www.pro-face.co.nz>
 pfau@pro-face.com

North/South American Head Office

Pro-face America
 Saline, MI U.S.A.
 Tel: +1 734 429 4971
 Fax: +1 734 429 1010
<http://www.profaceamerica.com>
 sales.info@profaceamerica.com

European Head Office

Pro-face Europe B.V.
 Hoofddorp THE NETHERLANDS
 Tel: +31 (0)23 55 44 099
 Fax: +31 (0)23 55 44 090
<http://www.proface.com>
 info@proface.com

France

Pro-face France S.A.S.
 Mity-Mory FRANCE
 Tel: +33 (0)1 60 21 22 91
 Fax: +33 (0)1 60 21 22 92
<http://www.proface.fr>
 info@proface.fr

Germany

Pro-face Deutschland GmbH
 Solingen GERMANY
 Tel: +49 (0)212 258 260
 Fax: +49 (0)212 258 2640
<http://www.pro-face.de>
 sales@pro-face.de

Italy

Pro-face Italia S.p.a.
 Bovisio Masciago (Milano) ITALY
 Tel: +39 0362 59 96 1
 Fax: +39 0362 59 96 69
<http://www.proface.it>
 info@proface.it

Poland

Pro-face Europe B.V.
 (Warsaw Office)
 Warsaw POLAND
 Tel/Fax: +48 22 850 9154
<http://www.proface.pl>

Scandinavia

Pro-face Scandinavia ApS
 Glostrup (Copenhagen) DENMARK
 Tel: +45 70 22 01 22
 Fax: +45 70 22 01 33
<http://www.pro-face.eu.net>
 info@pro-face.dk

Spain and Portugal

Pro-face España
 Cardedeu (Barcelona) SPAIN
 Tel: +34 (0)93 846 07 45
 Fax: +34 (0)93 845 48 68
<http://www.pro-face.es>
 central@pro-face.es

Sweden

Pro-face Sweden AB
 Loddekoping (Malmo) SWEDEN
 Tel: +46 46 540 90 70
 Fax: +46 46 71 27 90
<http://www.pro-face-eu.net>
 info@pro-face.se

Switzerland

Pro-face Deutschland GmbH
 Regensdorf SWITZERLAND
 Tel: +41 (0)43 343 7272
 Fax: +41 (0)43 343 7279
<http://www.pro-face.ch>
 info@pro-face.ch

United Kingdom

United Kingdom
 Pro-face UK Ltd
 Coventry ENGLAND
 Tel: +44 (0)2476 440088
 Fax: +44 (0)2476 440099
<http://www.profaceuk.com>
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