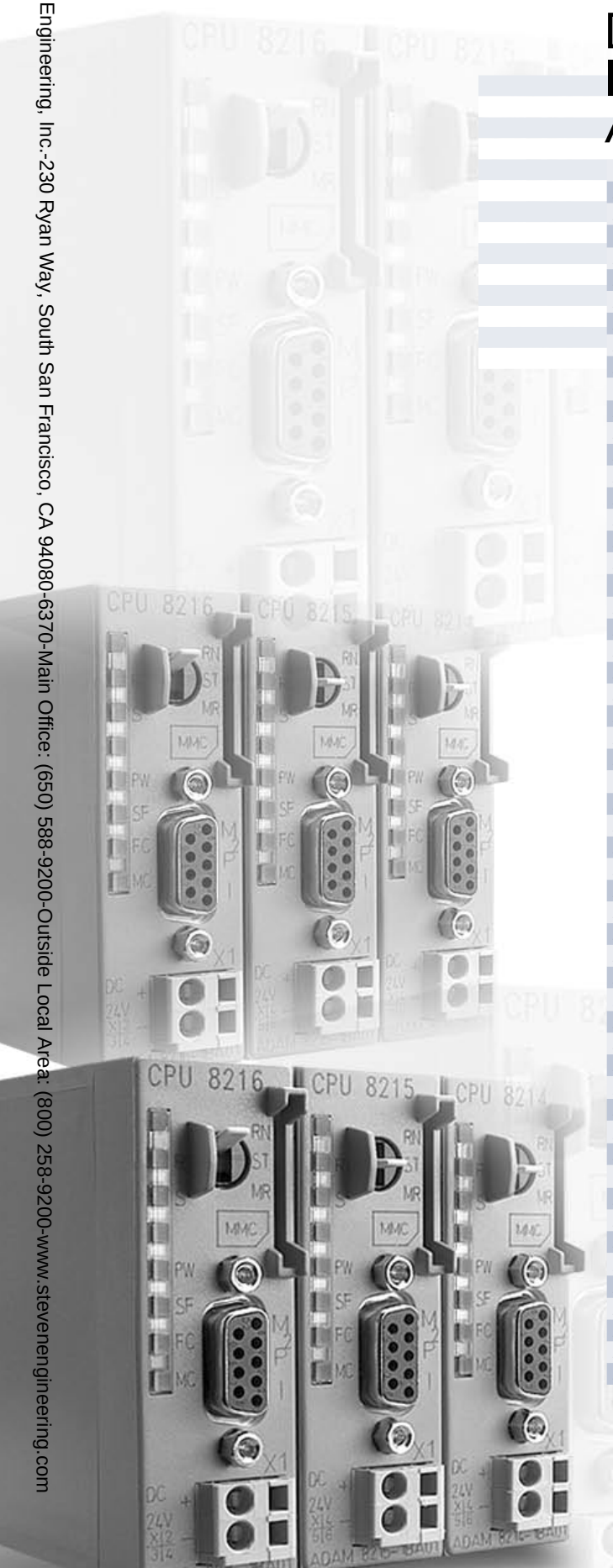
16

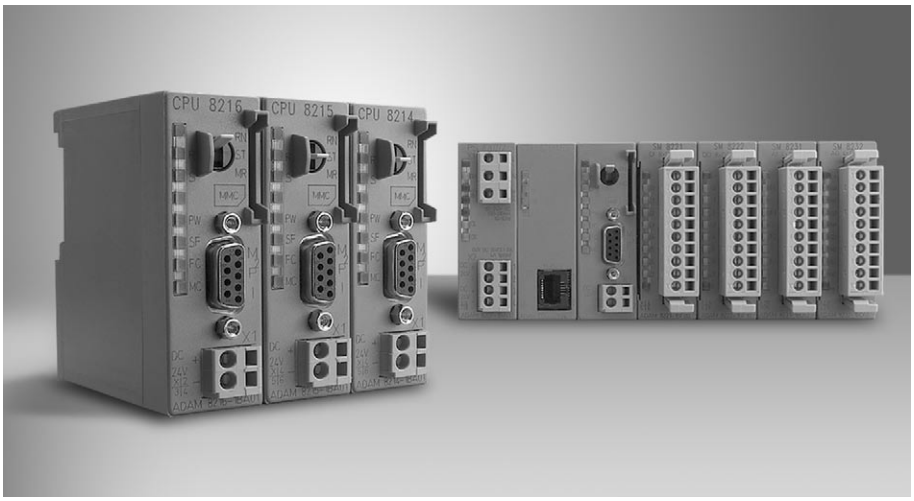
Distributed Control I/O System ADAM-8000 Series



ADAM-8000 Series	Distributed Control I/O	*16-2*
ADAM-8000 Series	Total Fieldbus Solution	*16-4*
CPU Modules		
ADAM8214-1BA01	PLC CPU214 Module	*16-6*
ADAM8214-2BM01	PLC CPU214 with Profibus-DP Master	*16-6*
ADAM8214-2BT01	PLC CPU214 with Ethernet-CP	*16-6*
ADAM8215-1BA01	PLC CPU215 Module	*16-6*
ADAM8215-2BM01	PLC CPU215 with Profibus-DP Master	*16-6*
ADAM8215-2BT01	PLC CPU215 with Ethernet-CP	*16-7*
Communication Interface Modules		
ADAM8208-1DP01	Profibus-DP Master Module	*16-7*
ADAM8208-2DP10	Profibus-DP Master Fiber Optic Module	*16-7*
ADAM8253-1DP00	Profibus-DP Slave Module	*16-7*
ADAM8253-1DP10	Profibus-DP Slave Fiber Optic Module	*16-7*
ADAM8208-1CA00	CANopen Master Module	*16-8*
ADAM8253-1CA01	CANopen Slave Module	*16-8*
ADAM8253-1DN00	DeviceNet Slave Module	*16-8*
ADAM8253-1NE00	Ethernet/TCP Slave Module	*16-8*
Digital Input Modules		
ADAM8221-1FD00	4xDI AC/DC 90~230V Module	*16-8*
ADAM8221-1BF00	8xDI DC 24V Module	*16-9*
ADAM8221-1BF50	8xDI DC 24V Active Low Input Module	*16-9*
ADAM8221-1FF20	8xDI AC/DC 60~230V Module	*16-9*
ADAM8221-1FF30	8xDI AC/DC 24~48V Module	*16-9*
ADAM8221-1BH10	16xDI DC 24V Module	*16-9*
ADAM8221-1BH20	16xDI 24V, 2 Counter Module	*16-10*
ADAM8221-2BL10	32xDI DC 24V Module	*16-10*
Digital Output Module		
ADAM8222-1HD10	4xDO Relay Module	*16-10*
ADAM8222-1HD20	4xDO Relay Module	*16-10*
ADAM8222-1BF00	8xDO DC 24V, 1 A Module	*16-10*
ADAM8222-1BF10	8xDO DC 24V, 2 A Module	*16-11*
ADAM8222-1BF20	8xDO DC 24V, 2 A Module	*16-11*
ADAM8222-1HF00	8xDO Relay Module	*16-11*
ADAM8222-1BH10	16xDO DC 24V, 1 A Module	*16-11*
ADAM8222-1BH20	16xDO DC 24V, 2 A Module	*16-11*
ADAM8222-2BL10	32xDO DC 24V Module	*16-12*
Analog Input Module		
ADAM8231-1BD52	4xAI Multi-input Module	*16-12*
ADAM8231-1BD60	4xAI 12-bit Floating Module	*16-12*
ADAM8231-1BF00	8xAI 16-bit Module	*16-12*
Analog Output Module		
ADAM8232-1BD50	4xAO 12-bit Multioutput Module	*16-12*
Analog I/O Module		
ADAM8234-1BD50	2xAI / 2xAO 12-bit Multi-range Module	*16-13*
Counter/Frequency Input Module		
ADAM8250-1BA00	Counter Module	*16-13*
ADAM8240-1CA10	Modbus Module	*16-13*
ADAM8201-1AA20	Terminal Module	*16-13*
Accessory		
ADAM8207-1BA00	Power Supply	*16-13*
ADAM8290	Backplane	*16-14*
ADAM8950	Green Cable	*16-14*
ADAM-WinPLC7	ADAM-8000 WinPLC7 Software	*16-14*
ADAM-WinNCS	ADAM-8000 WinNCS Software	*16-14*

ADAM-8000 Series

Distributed Control I/O



Applications

- Factory Automation
- Machine Automation
- Environment Monitoring
- Facility Management System

Introduction

The ADAM-8000 series consists of universal controllers that provide an optimum solution for various industrial applications in centralized and distributed system architectures. The concept of the ADAM-8000 is to fulfill today's PLC requirement, and take a step further, to help customers get into the fast-growing PC-based control and web-based automation market. Integrating web-based technology, industrial Fieldbus interfaces, high-performance CPUs and user friendly programming development tools, the ADAM-8000 series offers a complete solution.

Full-range Fieldbus for Various Industrial Applications

Various integrated interfaces are available for various industrial applications. It can be connected to the most popular Fieldbus networks such as: Profibus, CANopen, DeviceNet and Ethernet (Modbus/TCP).

Configurable Modular Design for Easy Expansion

The ADAM-8000 series features a configurable backplane bus design to conveniently customize your system setup. One, two, four or eight-module configurations are offered to ease installation and expansion. Besides, space-saving design and minimum wiring make maintenance simple and more cost effective.

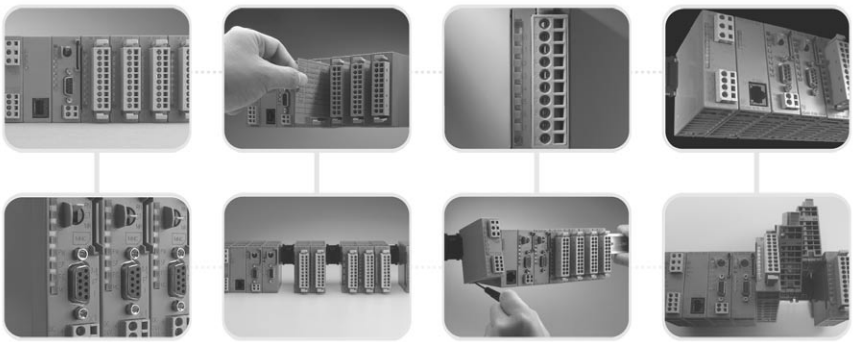
High-Performance CPUs

The ADAM-8000 series offers a wide range of CPUs to serve versatile applications. At the moment, nine CPU modules are available. These high-performance CPU modules ensure faster execution time at 0.18 µs/bit or 0.78 µs/word.

Web-Based Technology Integrated with Automation

eAutomation integrates IT technology with automation technology, a key competence sought by enterprises. By using Advantech WebLink (an internet gateway) and Advantech Studio, (a web-based HMI software), the ADAM-8000 series provides a web-enabled control system; the fundamental element of the entire eAutomation architecture. Open yet secure.

The ADAM-8000 represents a low-cost and future-oriented automation solution. Centralized control through distributed controllers. PLC and PC-based control. The best connections in distributed structures and integration with IT systems and more. The ADAM-8000 optimizes I/O systems to make them efficient and successful. You can deploy different CPU modules with Fieldbus connections, and easily implement a PLC control system or a PC-based control system without changing any ADAM-8000 I/O or remote I/O modules.



PLC Control

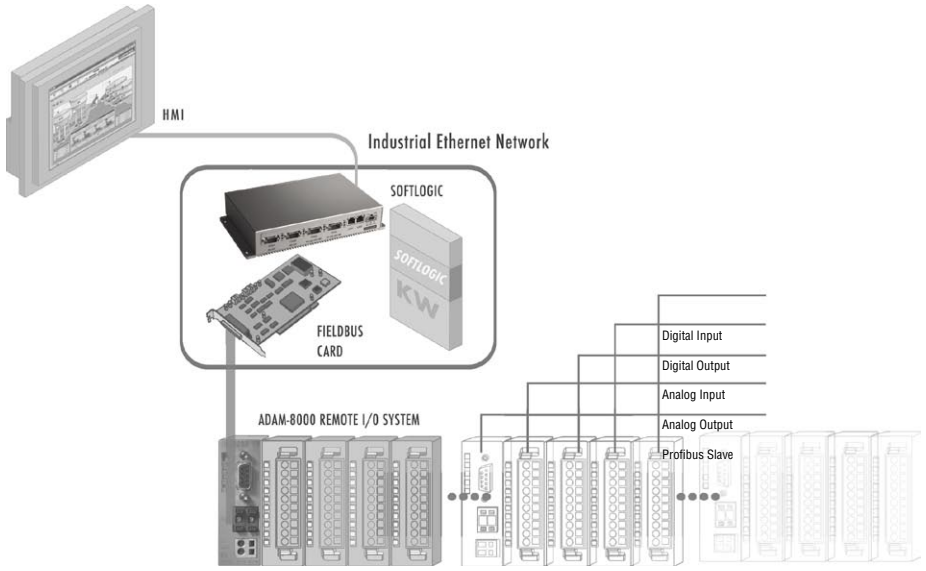
The ADAM-8000 series is a typical PLC control system. You can configure the ADAM-8000 CPU with I/O modules to create a stand-alone controller for distributed control applications. Each ADAM-8000 PLC controller can control up to 1024 I/Os, and the PLC controllers can also be extended by remote ADAM-8000 I/O systems, based on the Profibus-DP network for centralized control architectures. Flexible PLC control systems are therefore easily implemented.

PC-based Control

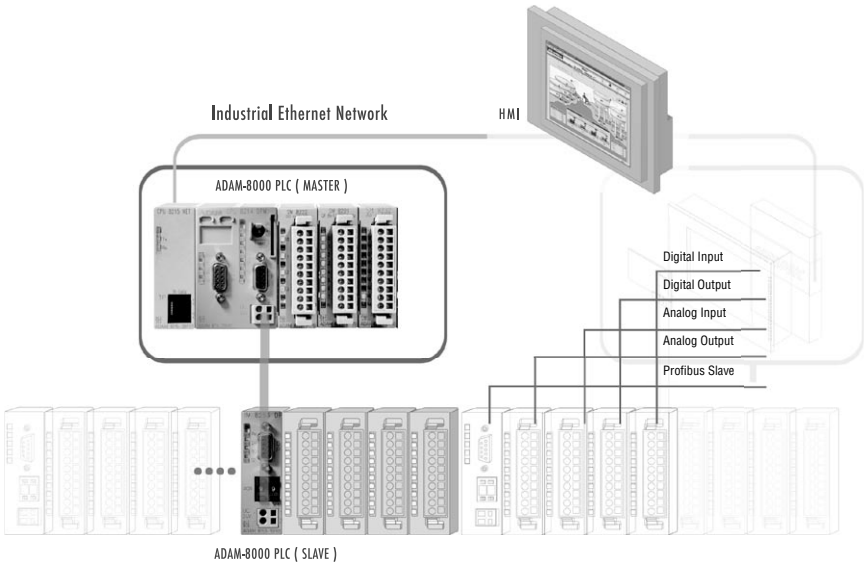
The ADAM-8000 series can be deployed in a centralized PC-based control architecture with the concept of DCS (Distributed Control System). Compared to other solutions, the ADAM-8000 offers a powerful and more economic process control system.

For a PC-based architecture, as long as the industrial PC comes with IEC61131-3 certified SoftLogic software (i.e. KW), the remote ADAM-8000 I/O system can be installed in a distributed field at the plant using Profibus, DeviceNet, CANopen, Modbus or Ethernet networks. The PC-based control system can perform with high reliability, stability, and at high communication speeds. Of course, the modular design brings great benefits for installation and maintenance. With the ADAM-8000 series, you can easily establish a PC-based centralized process control system with minimum investment.

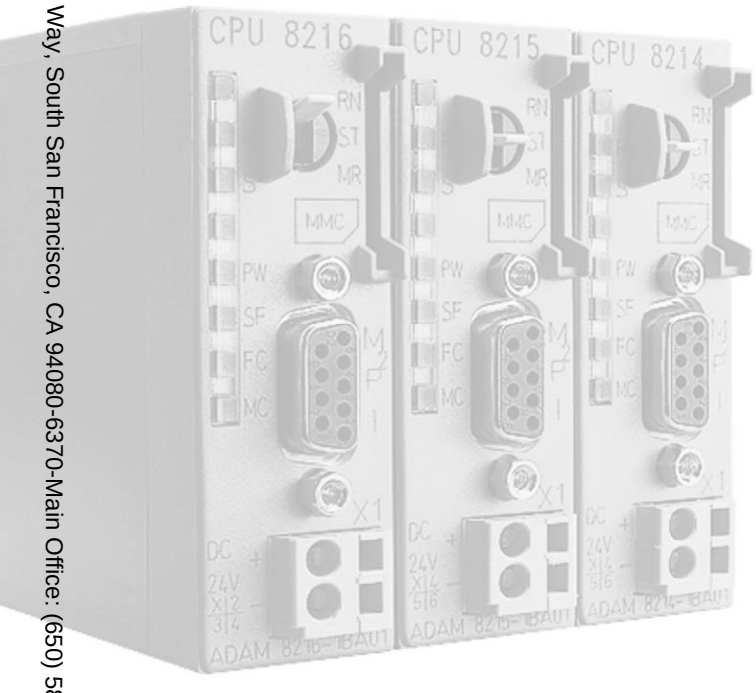
PC_based Control



PLC Control



ADAM-8000
Total Fieldbus Solution



Ethernet Networking

INDUSTRIAL ETHERNET

Ethernet Industrial Protocol (Ethernet/IP) is an open industrial networking standard that supports both real-time I/O messaging and message exchange. It emerged due to the high demand for using the Ethernet network for control applications. Ethernet/IP uses off-the-shelf Ethernet communication chips and physical media.

Profibus Networking

PROFIBUS

Profibus is an international standard applicable to an open fieldbus for building, manufacturing and process automation. Profibus defines the technical and functional characteristics of a serial fieldbus system that can be used to create a low (sensor/actuator level) or medium (process level) performance network of programmable logic controllers.

DeviceNet Networking

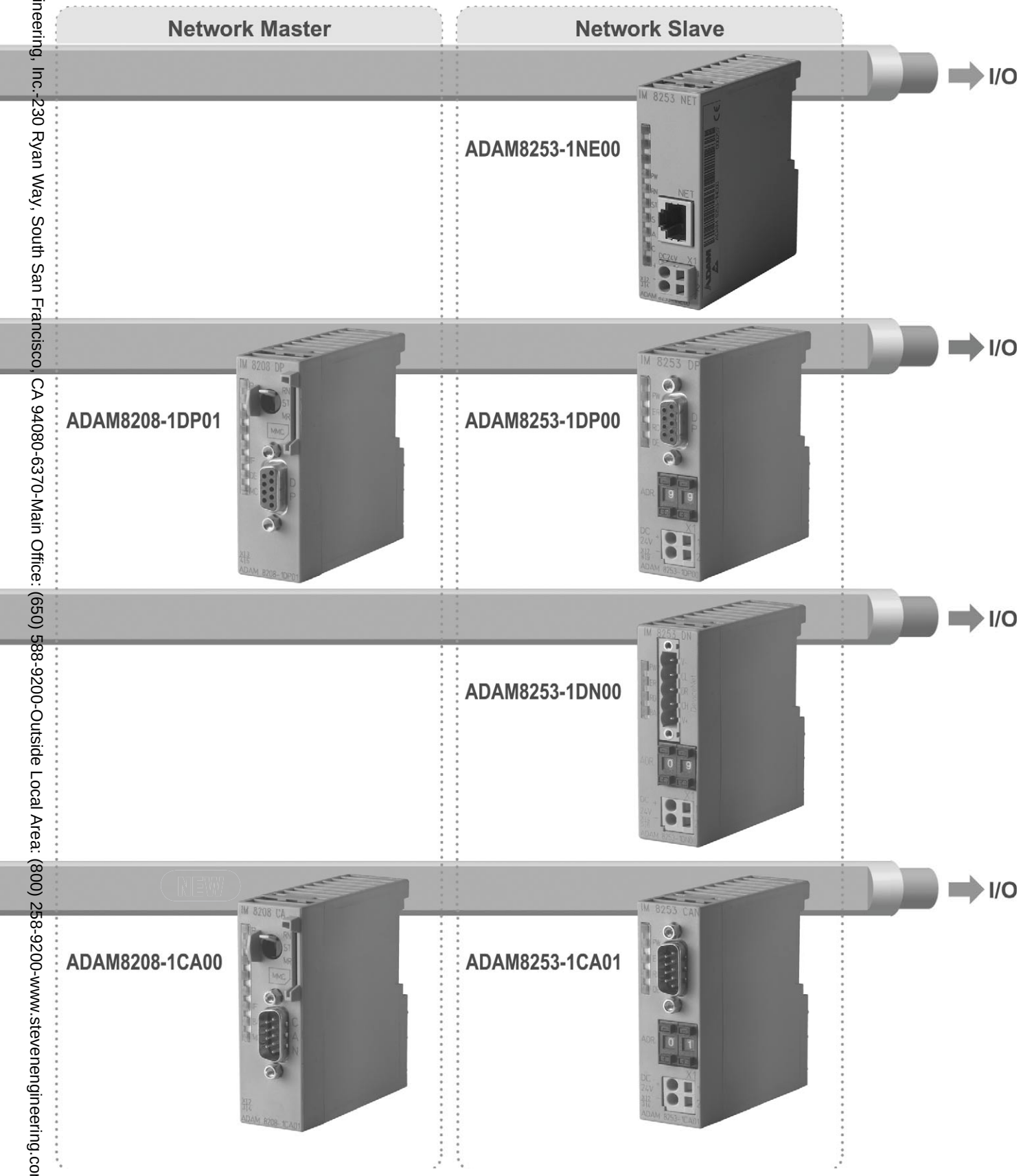
DeviceNet™

The DeviceNet network is a low-level network that provides connections between simple industrial devices (such as sensors and actuators) and higher-level devices (such as PLC controllers and computers). The DeviceNet network is a flexible, open network that works with devices from multiple vendors.

CANOpen Networking

CANopen

CANopen is a network technology optimized for the usage in industrial control environments, in machine internal networks and in embedded systems (any control unit deeply "embedded" in a device with electronics). The lower-layer implementation of CANopen is based upon CAN (Controller Area Network) which is implemented on microcontrollers of more than 22 chip manufacturers.



ADAM8214-1BA01
ADAM8214-2BM01
ADAM8214-2BT01
ADAM8215-1BA01
ADAM8215-2BM01

ADAM8214-1BA01

Specifications

Electrical Data
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** Max. 1.5 A

System Data
- **Work Memory** 32 KB
- **Load Memory** 40 KB
- **Battery Buffer** Yes
- **Real-time Clock** Yes
- **Timer/Counter** 128/256
- **Typ. Bit/Word Cycle Time** 0.18 µs/0.78 µs

ADAM8214-2BM01

Specifications

Electrical Data
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** Max. 1.5 A

System Data
- **Work Memory** 32 KB
- **Load Memory** 40 KB
- **Battery Buffer** Yes
- **Real-time Clock** Yes
- **Timer/Counter** 128/256
- **Typ. Bit/Word Cycle Time** 0.18 µs/0.78 µs

Profibus-DP Data
- **Interface** 9-pin D-type socket
- **Max. Baudrate** 9.6 k up to 12 Mbps
- **Connectable Slaves** Max. 125 (without repeater Max. 32)

ADAM8214-2BT01

Specifications

Electrical Data
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** Max. 1.5 A

System Data
- **Work Memory** 32 KB
- **Load Memory** 40 KB
- **Battery Buffer** Yes
- **Real-time Clock** Yes
- **Timer/Counter** 128/256
- **Typ. Bit/Word Cycle Time** 0.18 µs/0.78 µs

Ethernet Interface
- **Connector** RJ-45
- **Rate of Transfer** 10 Mbps
- **Overall Length** Max. 100 m per segment

ADAM8215-1BA01

Specifications

Electrical Data
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** Max. 1.5 A

System Data
- **Work Memory** 64 KB
- **Load Memory** 80 KB
- **Battery Buffer** Yes
- **Real-time Clock** Yes
- **Timer/Counter** 128/256

ADAM8215-2BM01

Specifications

Electrical Data
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** Max. 1.5 A

System Data
- **Work Memory** 64 KB
- **Load Memory** 80 KB
- **Battery Buffer** Yes
- **Real-time Clock** Yes
- **Timer/Counter** 128/256

Profibus-DP Data
- **Interface** 9-pin D-type socket
- **Max. Baudrate** 9.6 k up to 12 Mbps
- **Connectable Slaves** Max. 125 (without repeater Max. 32)

Ordering Information

- **ADAM8214-1BA01** PLC CPU214 Module
- **ADAM8214-2BM01** PLC CPU214 with Profibus-DP Master
- **ADAM8214-2BT01** PLC CPU214 with Ethernet-CP
- **ADAM8215-1BA01** PLC CPU215 Module
- **ADAM8215-2BM01** PLC CPU215 with Profibus-DP Master

ADAM8215-2BT01
ADAM8208-1DP01
ADAM8208-2DP10
ADAM8253-1DP00
ADAM8253-1DP10

ADAM8215-2BT01

Specifications

Electrical Data
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** Max. 1.5 A

System Data
- **Work Memory** 64 KB
- **Load Memory** 80 KB
- **Battery Buffer** Yes
- **Real-time Clock** Yes
- **Timer/Counter** 128/256

Ethernet Commands
- **Connector** RJ-45
- **Rate of Transfer** 10 Mbps
- **Overall Length** Max. 100 m per segment

ADAM8208-1DP01

Specifications

- **Interface** RS-485/9pin SubD
- **Baudrates** 9.6 k up to 12 Mbps
- **Connectable Slaves** 122 (without repeater max. 32)
- **Parameter Memory** MMC card
- **Max. Input** 1024 byte
- **Max. Output** 1024 byte
- **Supply Voltage int. Bus** 5 V_{DC}
- **Current Consumption int. bus** 380 mA

ADAM8208-2DP10

Specifications

- **Interface** LWL: POF/HCS
- **Baudrates** 9.6 k up to 12 Mbps
- **Connectable Slaves** 122 (without repeater max. 32)
- **Parameter Memory** MMC card
- **Max. Input** 1024 byte
- **Max. Output** 1024 byte
- **Supply Voltage int. Bus** 5 V_{DC}
- **Current Consumption int. bus** 380 mA

ADAM8253-1DP00

Specifications

- **Interface** RS-485/9pin SubD
- **Baudrates** 9.6 k up to 12 Mbps
- **Connectable Slaves** 32
- **Max. Input** 152 byte
- **Max. Output** 152 byte
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** 800 mA

ADAM8253-1DP10

Specifications

- **Interface** LWL: POF/HCS
- **Baudrate** 9.6 k up to 12 Mbps
- **Connectable Slaves** 32
- **Max. Input** 152 byte
- **Max. Output** 152 byte
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** 800 mA

Ordering Information

- **ADAM8215-2BT01** PLC CPU215 with Ethernet-CP
- **ADAM8208-1DP01** Profibus-DP Master Module
- **ADAM8208-2DP10** Profibus-DP Master Fiber Optic Module
- **ADAM8253-1DP00** Profibus-DP Slave Module
- **ADAM8253-1DP10** Profibus-DP Slave Fiber Optic Module

ADAM8208-1CA00
ADAM8253-1CA01
ADAM8253-1DN00
ADAM8253-1NE00
ADAM8221-1FD00

ADAM8208-1CA00

Specifications

- **Interface** 9-pin SubD
- **Baudrate** 10 k up to 1 Mbps
- **Connectable Slaves** 126
- **Parameter Memory** MMC card
- **Max. Input** 256 byte
- **Max. Output** 256 byte
- **Supply Voltage Int. Bus** 5 V_{DC}
- **Current Consumption Int. bus** 380 mA

ADAM8253-1CA01

Specifications

- **Interface** 9-pin SubD
- **Baudrate** 10 k up to 1 Mbps
- **Connectable Slaves** 32
- **Max. Input** 80 byte
- **Max. Output** 80 byte
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** 700 mA

ADAM8253-1DN00

Features

- Group 2 only Device, employs the predefined connection set
- Poll only Device, no BIT STROBE mode & CHANGE STATE support

Specifications

- **Interface** DeviceNet Open Style
- **Baudrate** 125 k, 250 k, 500 kbps
- **Connectable Slaves** 32
- **Max. Input** 256 byte
- **Max. Output** 256 byte
- **Supply Voltage** 24 V_{DC}
- **Current Consumption** 800 mA

ADAM8253-1NE00

Features

- Easy error search via diagnostics LEDs
- Supports MODBUS/TCP protocol
- Embedded Web Page
- Compatible with ADAM Ethernet Utility Software

Specifications

- **Interface** Ethernet RJ-45 Module
- **Baudrate** 10/100 Mbps
- **Connectable slaves** 256
- **Supply Voltage** 24 V_{DC}
- **Current consumption** 800 mA

ADAM8221-1FD00

Specifications

- **Input Voltage** AC/DC 90~230 V
- **Channels** 4
- **Channel Single Floating** Yes
- **Optical Isolation** 500 V_{DC}
- **Input Data** 1 byte
- **Input Voltage at "1"** DC 90~230 V
- **Input Voltage at "0"** DC 0~35 V
- **Delay Time** 25 ms
- **Supply Voltage Int. Bus** 5 V_{DC}
- **Current Consumption Int. Bus** 80 mA

Ordering Information

- **ADAM8208-1CA00** CANopen Master Module
- **ADAM8253-1CA01** CANopen Coupler
- **ADAM8253-1DN00** DeviceNet™ Coupler
- **ADAM8253-1NE00** Ethernet/TCP Slave Module
- **ADAM8221-1FD00** 4 DI AC/DC90~230 V Module

ADAM8221-1BF00
ADAM8221-1BF50
ADAM8221-1FF20
ADAM8221-1FF30
ADAM8221-1BH10

ADAM8221-1BF00

Specifications

- **Input Voltage** DC 24 V
- **Channels** 8
- **Optical Isolation** 500 V_{DC}
- **Input Data** 1 byte
- **Input Voltage at "1"** DC 15~30 V
- **Input Voltage at "0"** DC 0~5 V
- **Delay Time** 3 ms

ADAM8221-1BF50

Specifications

- **Input Voltage** DC 24 V
- **Channels** 8
- **Optical Isolation** 500 V_{DC}
- **Input Data** 1 byte
- **Input Voltage at "1"** DC 0~5 V
- **Input Voltage at "0"** DC 15~30 V
- **Delay Time** 3 ms

ADAM8221-1FF20

Specifications

- **Input Voltage** AC/DC 60~230 V
- **Channels** 8
- **Optical Isolation** 500 V_{DC}
- **Input Data** 1 byte
- **Input Voltage at "1"** DC 60~230 V
- **Input Voltage at "0"** DC 0~35 V
- **Delay Time** 25 ms

ADAM8221-1FF30

Specifications

- **Input Voltage** AC/DC 24~48 V
- **Channels** 8
- **Optical Isolation** 500 V_{DC}
- **Input Data** 1 byte
- **Input Voltage at "1"** DC 18~48 V
- **Input Voltage at "0"** DC 0~8 V
- **Delay Time** 25 ms

ADAM8221-1BH10

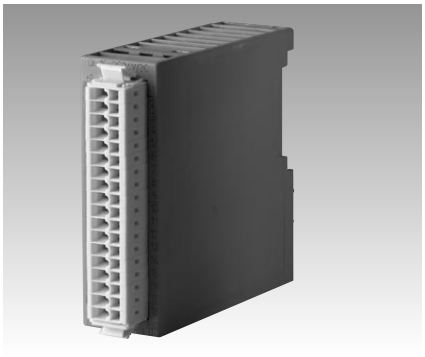
Specifications

- **Input Voltage** DC 24 V
- **Channels** 16
- **Optical Isolation** 500 V_{DC}
- **Input Data** 2 byte
- **Input Voltage at "1"** DC 15~30 V
- **Input Voltage at "0"** DC 0~5 V
- **Delay Time** 3 ms

Ordering Information

- **ADAM8221-1BF00** 8 DI DC 24 V Module
- **ADAM8221-1BF50** 8 DI DC 24 V Active Low Input Module
- **ADAM8221-1FF20** 8 DI AC/DC60~230 V Module
- **ADAM8221-1FF30** 8 DI AC/DC24~48 V
- **ADAM8221-1BH10** 16 DI DC 24 V Module

ADAM8221-1BH20
ADAM8222-2BL10
ADAM8222-1HD10
ADAM8222-1HD20
ADAM8222-1BF00



ADAM8221-1BH20

Specifications

- **Input Voltage** DC 24 V
- **Channels** 14 DI/2 Counter
- **Optical Isolation** 500 V_{DC}
- **Input Data** 2 byte/4 byte
- **Input Voltage at "1"** DC 15 ~ 30 V
- **Input Voltage at "0"** DC 0 ~ 5 V
- **Delay Time** 3 ms

ADAM8221-2BL10

Specifications

- **Input Voltage** DC 24 V
- **Channels** 32
- **Optical Isolation** 500 V_{DC}
- **Input Data** 4 byte
- **Input Voltage at "1"** DC 15~30 V
- **Input Voltage at "0"** DC 0~5 V
- **Delay Time** 3 ms

ADAM8222-1HD10

Specifications

- **Load Voltage** AC 230 V/DC 30 V
- **Channels** 4
- **Channel Floating** Yes
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte

ADAM8222-1HD20

Specifications

- **Load Voltage** AC 230 V/DC 30 V
- **Channels** 4 (bistable)
- **Channel Floating** Yes
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte

ADAM8222-1BF00

Specifications

- **Load Voltage** DC 24 V
- **Channels** 8
- **Output Current per Channel** 1 A
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte

Ordering Information

- **ADAM8221-1BH20** 16 DI DC 24 V, 2 Counter Module
- **ADAM8221-2BL10** 32 DI DC 24 V Module
- **ADAM8222-1HD10** 4 DO Relay Module
- **ADAM8222-1HD20** 4 DO Relay Module
- **ADAM8222-1BF00** 8 DO DC 24 V, 1 A Module

ADAM8222-1BF10
ADAM8222-1BF20
ADAM8222-1HF00
ADAM8222-1BH10
ADAM8222-1BH20

ADAM8222-1BF10

Specifications

- **Load Voltage** DC 24 V
- **Channels** 8
- **Output Current per Channel** 2 A
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte

ADAM8222-1BF20

Specifications

- **Load Voltage** DC 24 V
- **Channels** 8
- **Output Current per Channel** 2 A
- **Max. Sum Current Total** 16 A
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte
- **Channel Floating in Groups** 2

ADAM8222-1HF00

Specifications

- **Load Voltage** AC 230 V/DC 30 V
- **Channels** 8
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte
- **Output Current per Channel** 5 A
- **Operating Frequency** 100 Hz

ADAM8222-1BH10

Specifications

- **Load Voltage** DC 24 V
- **Channels** 16
- **Output Current per Channel** 1 A
- **Max. Sum Current Total** 10 A
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte
- **Channel Floating in Groups** 16

ADAM8222-1BH20

Specifications

- **Load Voltage** DC 24 V
- **Channels** 16
- **Output Current per Channel** 2 A
- **Max. Sum Current Total** 10 A
- **Optical Isolation** 500 V_{DC}
- **Output Data** 1 byte
- **Channel Floating in Groups** 16

Ordering Information

- **ADAM8222-1BF10** 8 DO DC 24 V, 2 A Module
- **ADAM8222-1BF20** 8 DO DC 24 V, 2 A Module
- **ADAM8222-1HF00** 8 DO Relay Module
- **ADAM8222-1BH10** 16 DO DC 24 V, 1 A Module
- **ADAM8222-1BH20** 16 DO DC 24 V, 2 A Module

ADAM8222-2BL10
ADAM8231-1BD52
ADAM8231-1BD60
ADAM8231-1BF00
ADAM8232-1BD50

ADAM8222-2BL10

Specifications

- **Load Voltage** DC 24 V
- **Channels** 32
- **Output Current per Channel** 1 A
- **Max. Sum Current per Row** 10 A
- **Optical Isolation** 500 V_{DC}
- **Output Data** 4 byte
- **Channel Floating in Groups** 16

ADAM8231-1BD52

Specifications

- **Channels** 4 or 2 (with 4 wire)
- **Input Data** 8 byte
- **Resolution** 12/16 bit
- **Input Resistance** Voltage 100 kΩ
Current 50 Ω
- **Integration Time** 5 ~ 70 ms
- **Input Range** +/-10 V, +/-4 V, +/-400 mV, 0/4 ~ 20 mA, +/-20 mA
- **Thermo Coupler** J, K, N, R, S, T (compensation connectable)
- **2 or 4 Wire Cabling** Pt100, Pt1000, Ni100, Ni1000
- **Resistance** 60 Ω, 600 Ω, 3000 Ω

ADAM8231-1BD60

Specifications

- **Channels** 4
- **Input Data** 8 byte
- **Resolution** 12 bit
- **Input Resistance** 20 Ω
- **Integration Time** 8.6 ms
- **Input Range** 0/4~20 mA
- **Channel Separation** Yes

ADAM8231-1BF00

Specifications

- **Channels** 8 or 4 (with 4 wire)
- **Input Data** 16 byte
- **Resolution** 16 bit
- **Input Resistance** >1 MΩ
- **Integration Time** 80 ms
- **Input Range** 0 ~ 60 mV
- **Thermo Coupler** J, K, T
- **2 or 4 Wire Cabling** Pt100

ADAM8232-1BD50

Specifications

- **Channels** 4
- **Output Data** 8 byte
- **Resolution** 12 bit
- **Actuator Resistance** Voltage Min. 1 kΩ
Current Max. 500 Ω
- **Supply Voltage** 24 V_{DC}
- **Output Range** 0~10 V, +/-10 V, 1~5 V, 0~20 mA, 4~20 mA, +/-20 mA

Ordering Information

- **ADAM8222-2BL10** 32 DO DC 24 V Module
- **ADAM8231-1BD52** 4 AI Multi-input Module
- **ADAM8231-1BD60** 4 AI 12-bit Floating Module
- **ADAM8231-1BF00** 8 AI 16-bit Module
- **ADAM8232-1BD50** 4 AO 12-bit Multioutput Module

ADAM8234-1BD50
ADAM8250-1BA00
ADAM8240-1CA10
ADAM8201-1AA20
ADAM8207-1BA00

ADAM8234-1BD50

Specifications

- **Channels** 2/2
- **Output Data** 4 byte/4 byte
- **Resolution** 12 bit
- **Input Resistance** Voltage 100 kΩ
  Current 50 Ω
- **Integration Time** 3 ms
- **Supply Voltage** 24 V_{DC}
- **Input/Output Range** 0~10 V, +/-10 V, 1~5 V, 0~20 mA, 4~20 mA, +/-20 mA

ADAM8250-1BA00

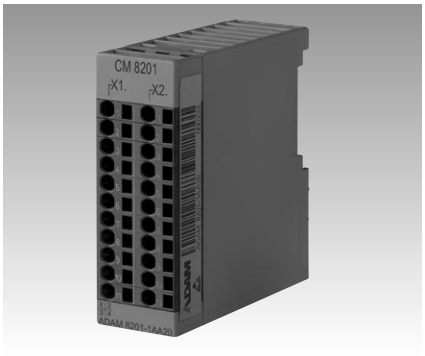
Specifications

- **Channels** 2 or 4
- **Counter Range** 32 or 16 bit
- **Counter Frequency** 1 MHz
- **Digital Outputs** 2
- **Input/Output Data** 10 byte/10 byte
- **Supply Voltage** 24 V_{DC}
- **Operating Models** Up/down counter compare/ auto-reload, encoder impulse, period duration, frequency measuring

ADAM8240-1CA10

Specifications

- **Channels** 1
- **Interface** RS-422/485
- **Baudrates** 150 up to 38.4 kbps
- **Input/Output Data** 16 byte/16 byte
- **Protocol** Modbus® (ASCII/RTU)



ADAM8201-1AA20

Specifications

- **Number of Rows** 2
- **Number of Terminals per Row** 11
- **Terminal Colors** Red/blue

ADAM8207-1BA00

Specifications

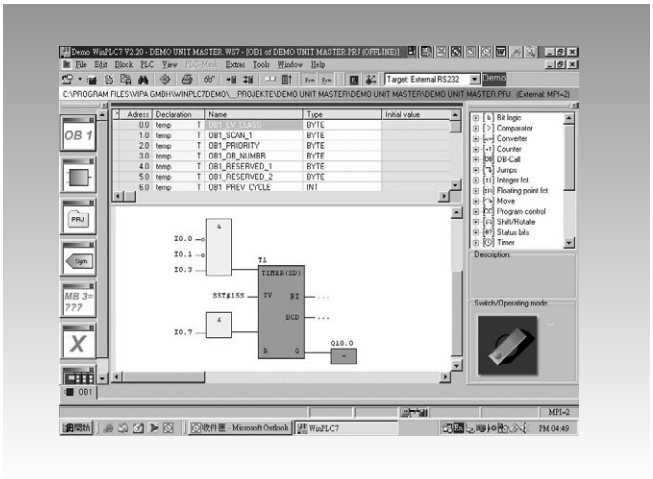
- **Input Voltage** AC100 ~ 240 V
- **Frequency** 50/60 Hz
- **Input Current** 0.24 A/AC230 V
- **Inrush Current** Max. 15 A
- **Buffer Time** Min. 10 ms/AC230 V
- **Output Voltage** DC24 V, +/-5%
- **Residual Ripple** <100 mVss incl. spikes
- **Output Current** 2 A (48 W)
- **Efficiency** Typical 90%
- **Losses** Typical 5 W
- **Connect in Parallel** Yes

Ordering Information

- **ADAM8234-1BD50** 2 AI/2 AO 12-bit Multi-range Module
- **ADAM8250-1BA00** Counter Module
- **ADAM8240-1CA10** Modbus® Module
- **ADAM8201-1AA20** Terminal Module
- **ADAM8207-1BA00** Power Supply

ADAM-WinPLC7
ADAM-WinNCS

ADAM8290
ADAM8950-0KB00



ADAM-WinPLC7

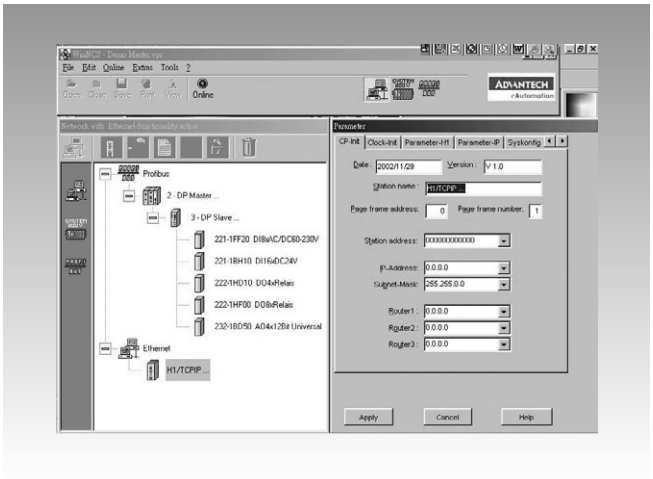
Introduction

The software tool ADAM WinPLC7 is a programming, diagnostics and simulation tool for the ADAM-8000 system.

ADAM WinPLC7 can be used to create simple programs for the ADAM-8000 CPU, diagnostics of the developed program, offline program simulation without controller hardware, import and export configuration file and create related documents.

Features

- Create PLC program (Function Block & Ladder Diagram)
- Fast online connection
- Simple simulation of the PLC program with integrated debugger (breakpoints, single step)
- Powerful control and status display of variables



ADAM-WinNCS

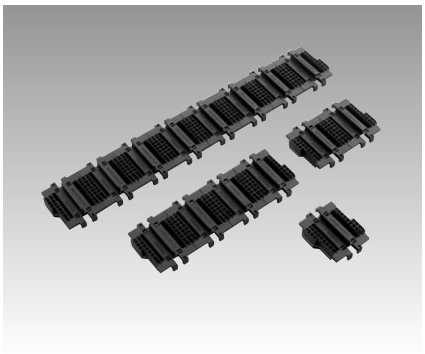
Introduction

ADAM WinNCS was developed for additional convenience for parameterization and handling of ADAM-8000 system components. ADAM WinNCS supports the parameterization of TCP/IP and Profibus master/slave interface module. It also supports the parameterization of the CPU modules for S7 from Siemens®.

Features

Parameterization of:

- TCP/IP modules of ADAM CPU214Net/215Net
- ADAM-8000 Profibus DP master/slave modules
- TCP/IP CPU modules of S7 from Siemens
- ADAM-8000 WinNCS Parameterization for Profibus-DP, TCP/IP, H1, IPK and RFC1006



ADAM8290

Specifications

- **ADAM8290-0AA10** 1-position backplane
- **ADAM8290-0AA20** 2-position backplane
- **ADAM8290-0AA40** 4-position backplane
- **ADAM8290-0AA80** 8-position backplane

ADAM8950-0KB00

Introduction

ADAM-8000 "Green Cable", programming and download cable for ADAM-8000 CPU 8214/8215/8216 and ADAM-8000 fieldbus master for Profibus-DP

- Programming
- Parameter Setting
- Firmware Update

Ordering Information

- **ADAM-WinPLC7** ADAM-8000 WinPLC7, single license software for programming, testing, diagnosis and simulation for ADAM-8000 PLC
- **ADAM-WinNCS** ADAM-8000 WinNCS Software
- **ADAM8290-0AA10** 1-position backplane
- **ADAM8290-0AA20** 2-position backplane
- **ADAM8290-0AA40** 4-position backplane
- **ADAM8290-0AA80** 8-position backplane
- **ADAM8950-0KB00** Green Cable