



Automation for a Changing World

Delta Compact Non-backplane Mid-range PLC AS Series

Flexible, Smart, Friendly - The Best Choice for a Controller of Automated Equipment

The Delta Compact Non-backplane Mid-range PLC AS Series is a high performance multi-purpose controller designed for all kinds of automated equipment. It features Delta's self-developed 32-bit SoC CPUs for enhanced execution speed (40k steps/ms) and supports up to 32 extension modules or max. 1,024 inputs/outputs. The AS series provides accurate positioning control for max. 8 axes via CANopen motion network and max. 6 axes via pulse control (200 kHz). It is widely used in diverse automated equipment such as electronics manufacturing, labeling, food packaging, and textile machines.

The AS Series Controller is equipped with CANopen and EtherNet/IP network communication for high-speed data transmission. The professional yet simple editing software ISPSoft V3.0 delivers quick hardware and network configuration with built-in function blocks for different industries. It also provides multi-layer password protection for enhanced system security.

The AS Series adopts a non-backplane design and patented DIN rail clips for fast vertical module installation. The simple shape and dark gray exterior of the AS series help resist stains and dirt in harsh industrial environments. With recyclable and lead-free material, it is compliant with international environmental requirements for industrial products.





High Efficiency Computing

- Advanced CPU performance
- Optimized execution efficiency
- Optimized I/O update rate
- Permanent data backup, no battery required



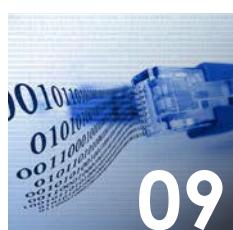
Accurate Axis Control

- Delta CANopen positioning control
- Simple control instructions
- High-speed pulse positioning control
- High-speed counter



Simple Installation

- Easy installation process
- Convenient grounding protection
- Screwless installation procedure
- Loose-proof clip-type terminal block



Industrial Network Solution

- EtherNet/IP solution
- Remote I/O solution
- Serial communication solution



Programming and Diagnosis Functions

- Modular programming structure
- Convenient editing environment
- Easy hardware configuration and parameter setting
- Complete setting tools
- Multiple password protection



Models and Specifications

- CPU
- AS Series I/O modules
- High-density modules and accessories
- Dimensions
- Ordering information

High Efficiency Computing

Delta's self-developed AS Series CPU provide 32-bit high-performance computing. As the core of a high-efficiency controller, it helps increase productivity and adaptability to demanding equipment.



Advanced CPU Performance

■ High speed execution up to 40 k steps/ms

(Condition: 40 % LD instruction / 60% MOV instruction)

- Max. number of inputs/outputs: 1,024
- Program capacity: 128 k steps
- Data register: 60 k words
- Max. extension ability: 32 modules

LD instruction 25 ns

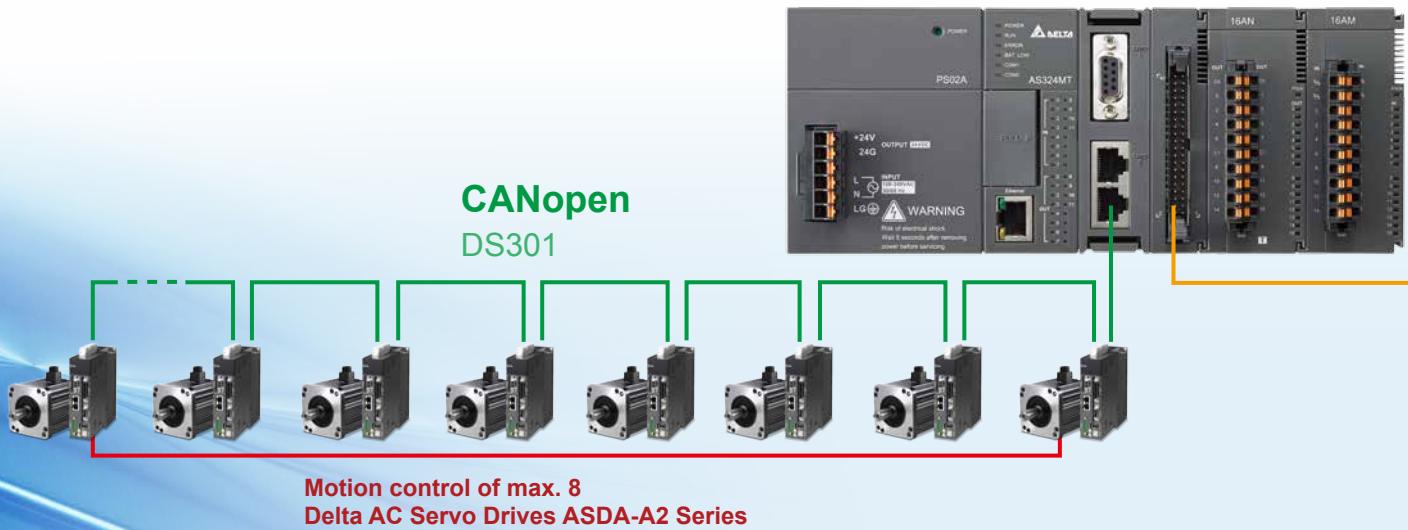
MOV instruction 0.15 µs

Floating point operation instruction 1.6 µs

Trigonometric function instruction 3.5 µs

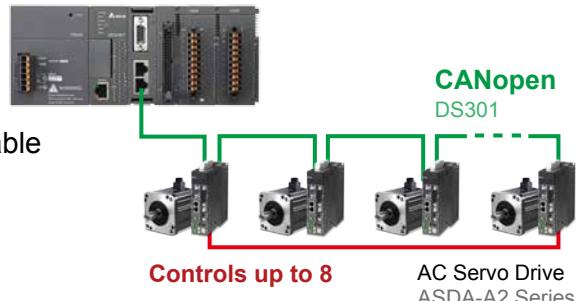


Accurate Axis Control - Positioning Control Solution



■ Positioning control - Delta's CANopen Control

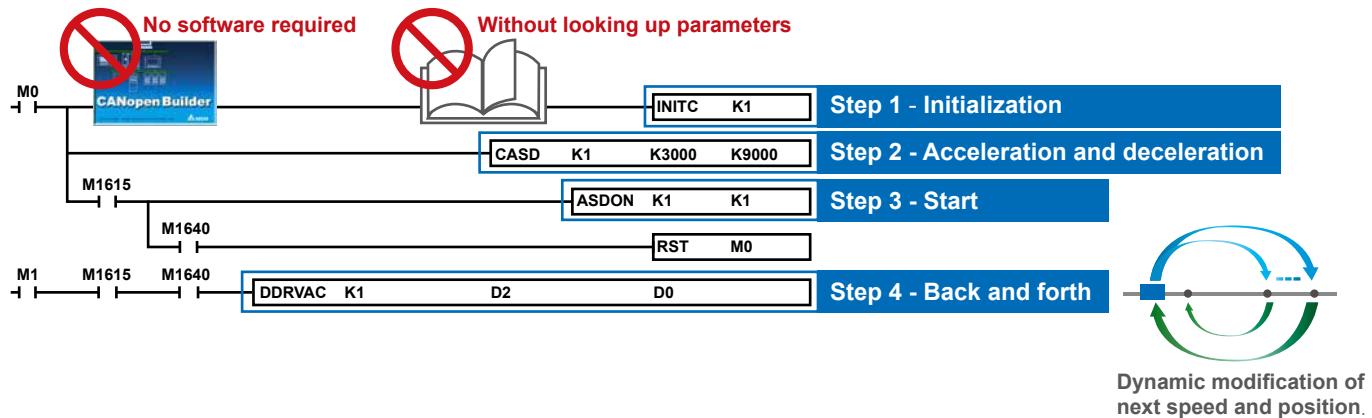
- Deliver up to 8-axis CANopen positioning control with AS-FCOPM communication card
- Fast positioning configuration in one initialization instruction without building CANopen data exchange table
- Batch download programmable servo drive parameters avoid risks of loss
- Axis control by instructions provide easy maintenance and high PLC program readability



■ Simple control instructions for AC Servo Drive ASDA-A2 Series

- | | |
|---------------------------------------|---------------------------------|
| ▪ Initialization: INITC | ▪ Constant speed control: PLSVC |
| ▪ Relative positioning: DRVIC | ▪ Absolute positioning: DRVAC |
| ▪ Read and write parameter: COPRW | ▪ Start / Stop: ASDON |
| ▪ Acceleration and deceleration: CASD | ▪ Homing: ZRNC |

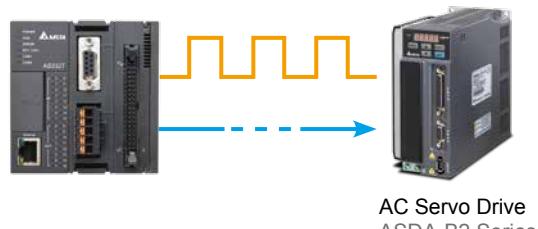
ASDA-A2 back and forth motion control in 4 steps





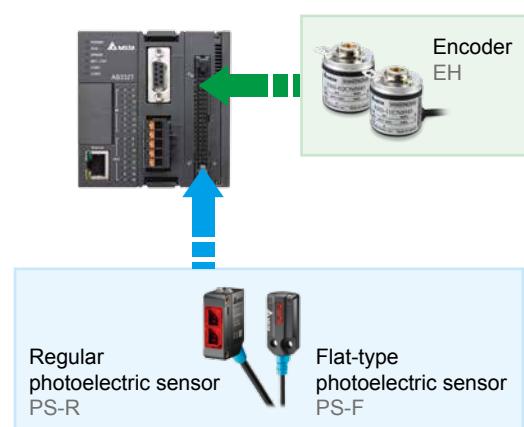
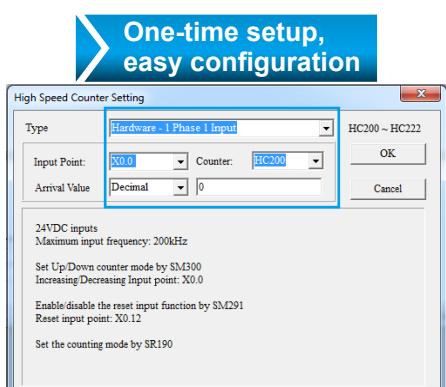
■ Positioning control - high-speed pulse

- AS332T-A / AS332P-A transistor CPU: 6 axes (or 12 channels) 200 kHz
- AS324MT-A differential CPU: 2 axes 4 MHz + 4 axes 200 kHz
- Support positioning planning table for fast positioning planning and path simulation
- Choose any given 2 axes for linear and arc interpolation



■ High-speed counter

- Real-time high precision monitoring:
AS332T-A / AS332P-A transistor CPU: 6 channels 200 kHz
AS324MT-A differential CPU: 2 channels 4 Mbps / 4 channels 200 kHz
- Up to 16 external input interrupts
- High-speed counter setting tools

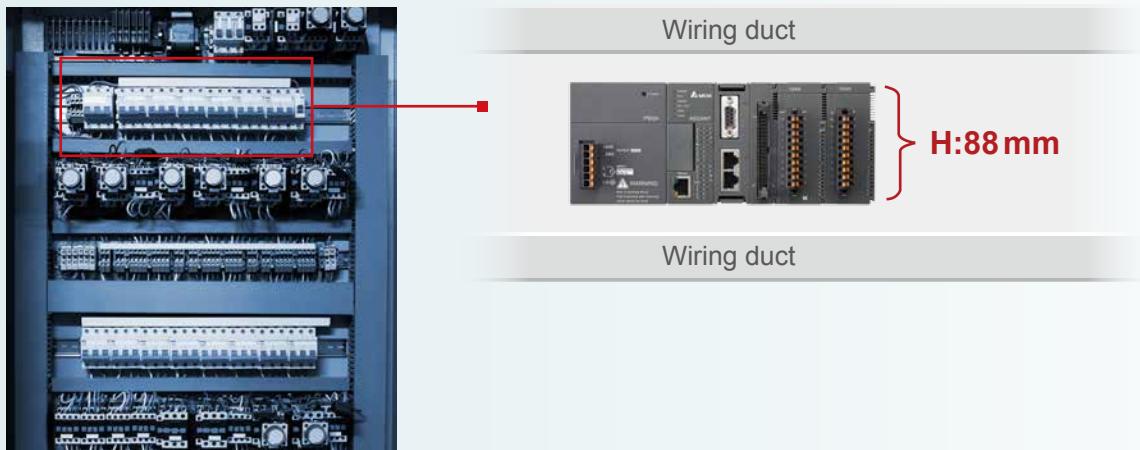


Simple Installation



■ Easy installation design

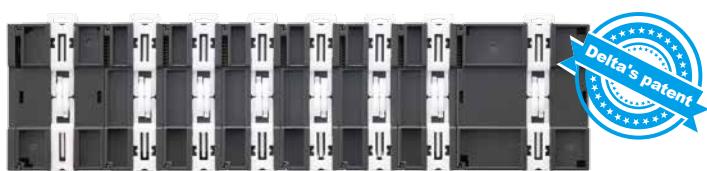
- Space-saving design suitable for installation in control panels



■ Non-backplane Din-rail installation

- Delta patented design

➤ Robust slot and clip interlocking design



■ Fast disassembly

- Release the clip ring to easily take out the module from the front without moving adjacent modules



■ Simple installation process

- Press the clip rings and push the module to the desired position until hearing a "click" to finish installation



■ Convenient grounding protection

- Install on Din-rail: CPU module and expansion modules can be installed directly on Din-rail without backplane
- Install with screw: pull out the installation clip ring and directly install it on the panel
- Both methods are equipped with ground protection

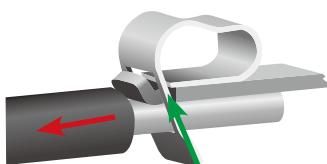


■ Screwless and time-saving installation



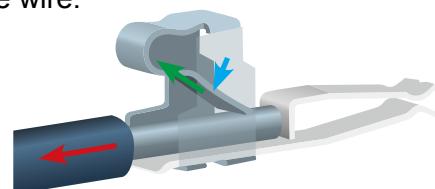
■ Robust Loose-proof spring clamp terminal block

- In commonly used spring clamp terminal blocks, the clamping force is determined by the spring material, which decreases with the aging of the spring.



The green arrow is the clamping force, and the red arrow is the pull-out force.

- The AS Series adopts the full-covered spring clamp design that enhances the clamping force. When the wire is pulled-out (red arrow) and the spring moves up (green arrow), a downward force is generated (blue arrow) to clamp the wire.



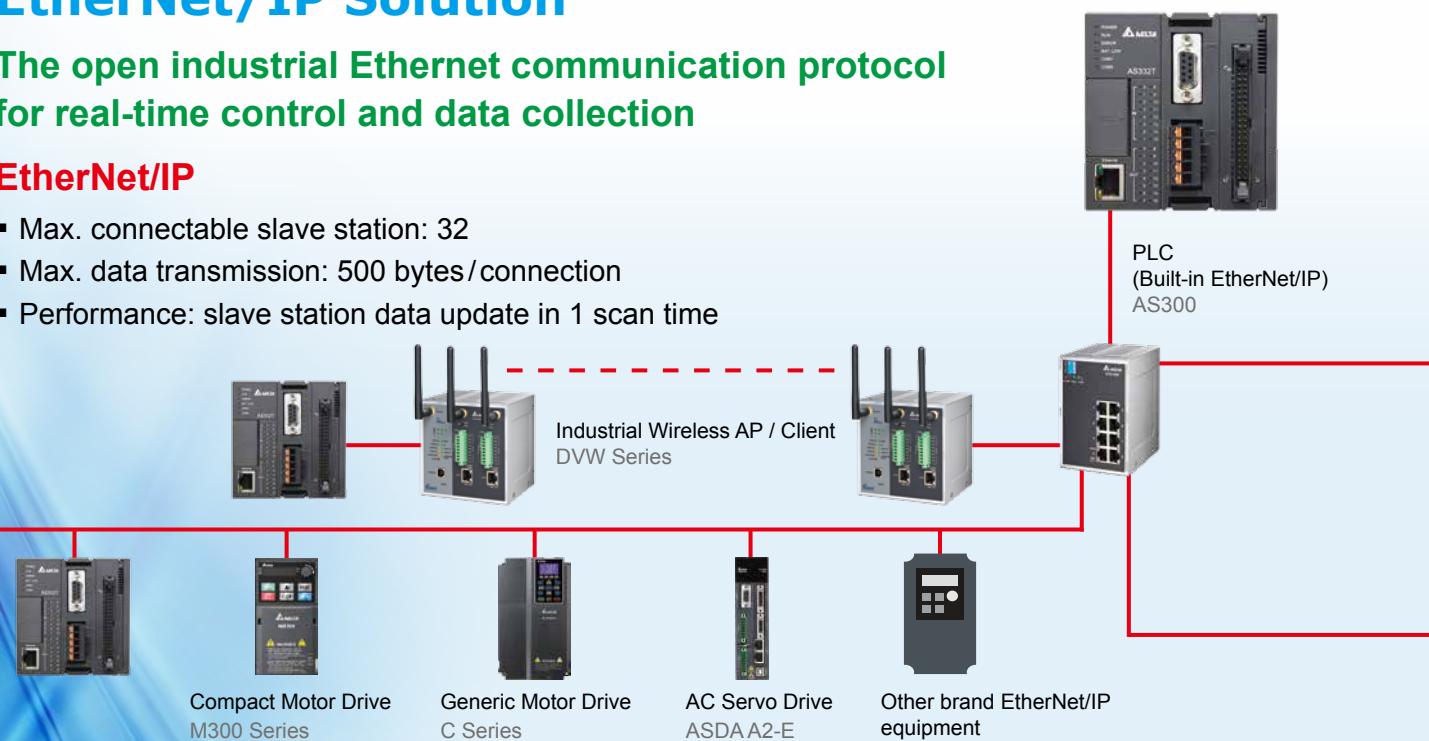
Industrial Network Solution

EtherNet/IP Solution

The open industrial Ethernet communication protocol for real-time control and data collection

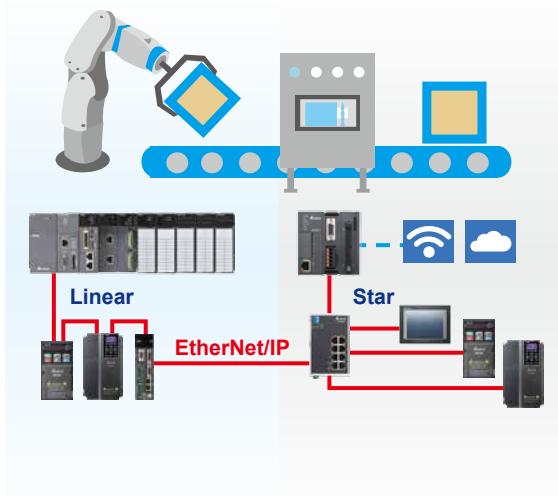
EtherNet/IP

- Max. connectable slave station: 32
- Max. data transmission: 500 bytes/connection
- Performance: slave station data update in 1 scan time



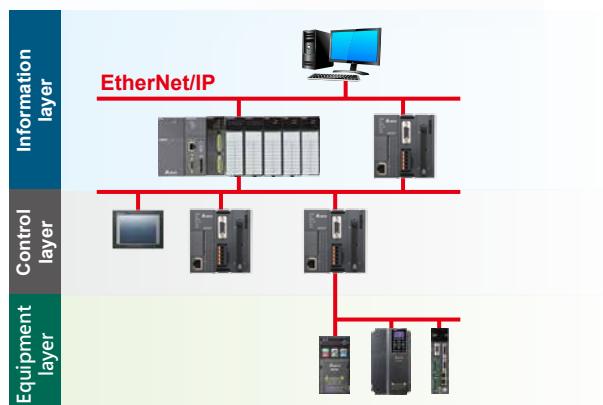
■ Flexible network system configuration

- Support star, linear network topology for fast expansion and management on production lines
- Compatible with IT network. No independent network or IT technician required
- Combined with Delta IES solution to construct IoT for more automation application and industrial 4.0 upgrade



■ One cable, one network

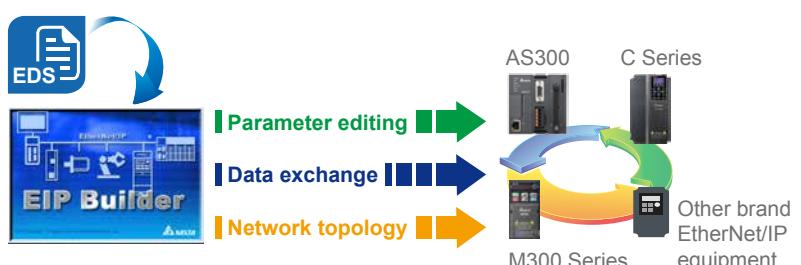
- Complete Delta EtherNet/IP solution connects different equipment via Ethernet cable and simplify cable preparation
- Replace traditional 3-layer industrial network structure with seamless connection via 100MB high-speed network
- Complete industrial network diagnosis for shortened debug time





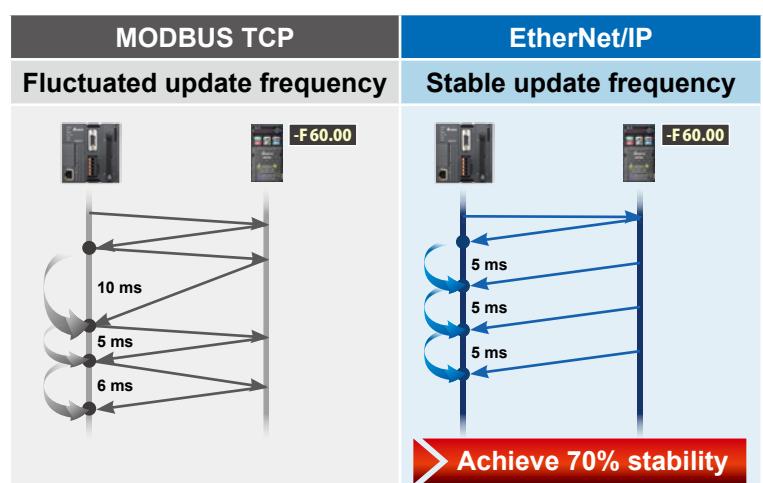
■ Software integration

- Consistent data exchange interface shortens learning time with fast system configuration
- Provide Delta equipment parameter list for quick parameter matching without looking into detailed manual
- EDS File provide quick connection with EtherNet/IP products of other brands



■ Accurate data update

- Provide real-time cyclic and acyclic data transmission and define data priority between equipment
- Establish multiple CIP links and define different register priority with one piece of equipment
- Execute data update based on user RPI. Update all slave station data in one scan time
- 70% better stability compared with traditional MODBUS TCP

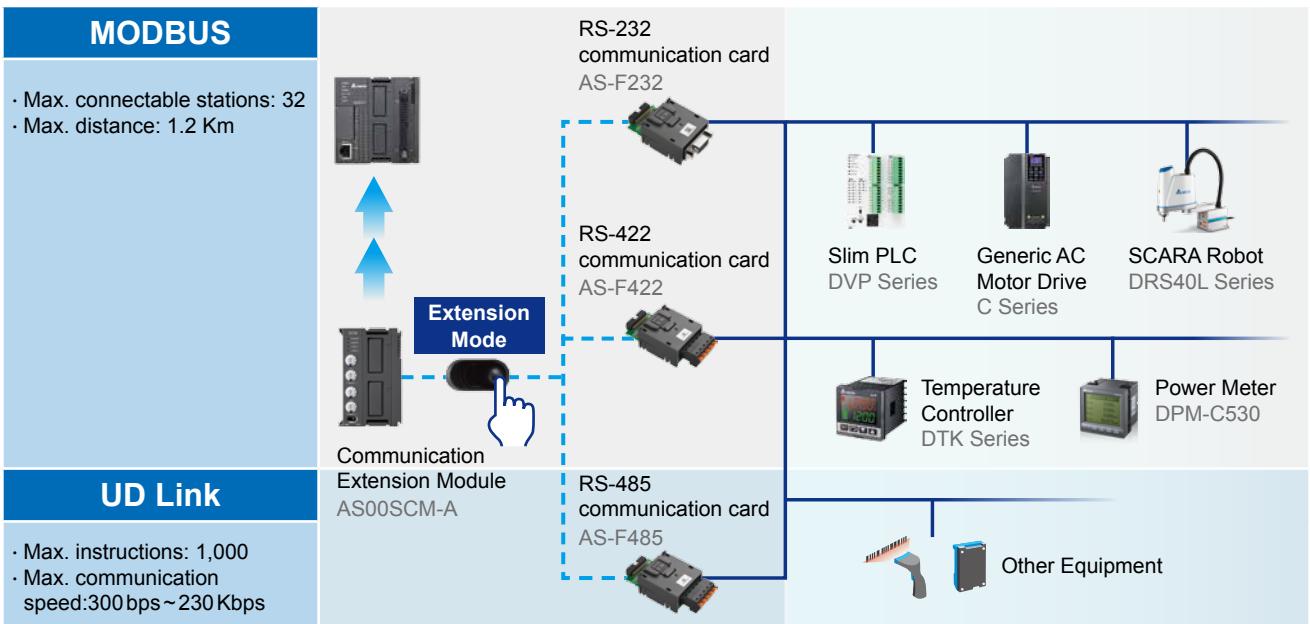


EtherNet/IP Software EIP Builder

The screenshot shows the EIP Builder software interface with several windows:

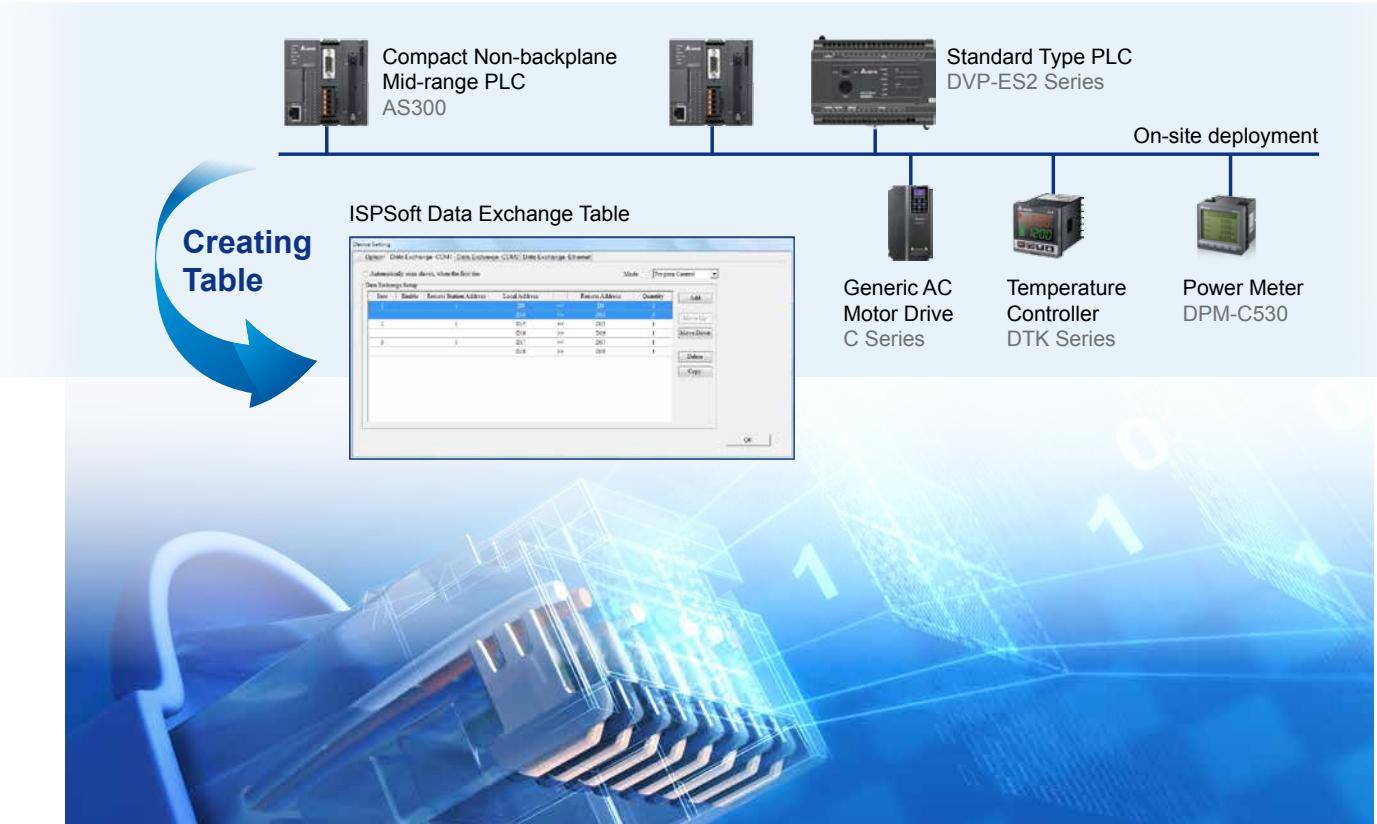
- Network View:** Displays a network diagram with multiple nodes connected via EtherNet/IP ports.
- Product List:** Shows a hierarchical list of products including Programmable Logic Controllers (PLCs), Communications Adapters, and Sensors.
- Data Exchange Table:** A table showing data exchange settings between devices. A red box highlights the table.
- Visualized Network Mapping:** A section titled "Visualized Network Mapping" with a sub-point "Direct network planning". It includes a diagram of a network structure.
- Network Mapping Diagnosis:** A section titled "Network Mapping Diagnosis" with a sub-point "Real-time network status and device indicators display". It includes a screenshot of the network view showing device status.
- Parameter List:** A section titled "Parameter List" with a sub-point "Built-in parameter list of Delta's products". It includes a screenshot of a parameter configuration table.
- Data Input/Output Corresponding Table:** A table showing data exchange parameters between PLCs. A red box highlights the table.
- Data Exchange Diagnosis:** A section titled "Data Exchange Diagnosis" with a sub-point "Data exchange status and error codes". It includes a screenshot of a data exchange status table.
- Visualized Product List:** A section titled "Visualized Product List" with a sub-point "Visualized equipment selection". It includes a screenshot of the product list window.
- IP Management Function:** A section titled "IP Management Function" with a sub-point "Configure all IP address of all EtherNet/IP products". It includes a screenshot of an IP configuration dialog.
- Equipment Description Management Function:** A section titled "Equipment Description Management Function" with a sub-point "Welcome to the Device Description File Manager". It includes a screenshot of the device description manager.

Serial Communication Solution



■ MODBUS Mode

- Easy data exchange configuration



Programming and Diagnosis Functions



ISPSof IEC Programming Software

Easy operation greatly enhances efficiency

Data Tracer / Logger

- Data log and time-sequential analysis

Positioning Planning Tool

- Table-structured position planning

CARD Utility

- Data backup tool

COMMGR

- Communication interface manager

HWCONFIG

- Hardware configuration and parameter setting

EIP Builder

- EtherNet/IP network configuration

CANopen Builder

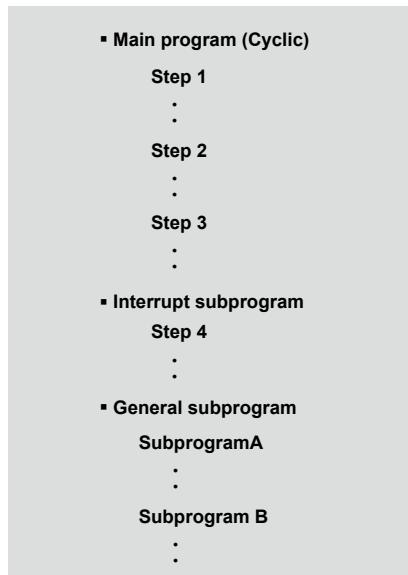
- CANopen network configuration

A central vertical red arrow points downwards from the main programming software interface towards the bottom center of the page, indicating the flow from the general software to the specific tools.

Modular Program Structure

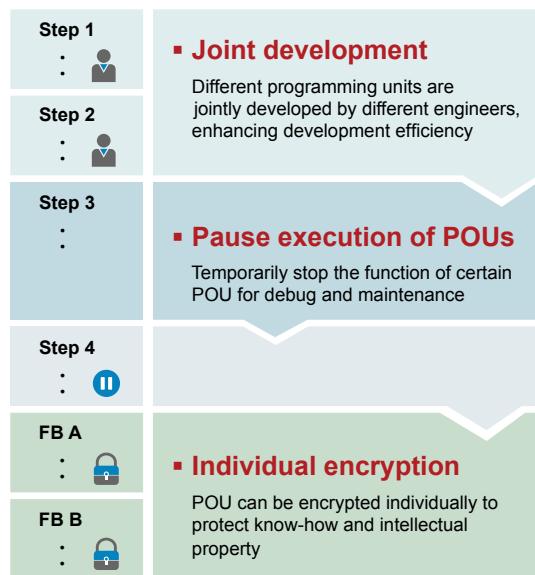
■ Traditional program structure

Errors are often found in large-scale programs under a traditional structure. It's hard to debug with increased maintenance cost.

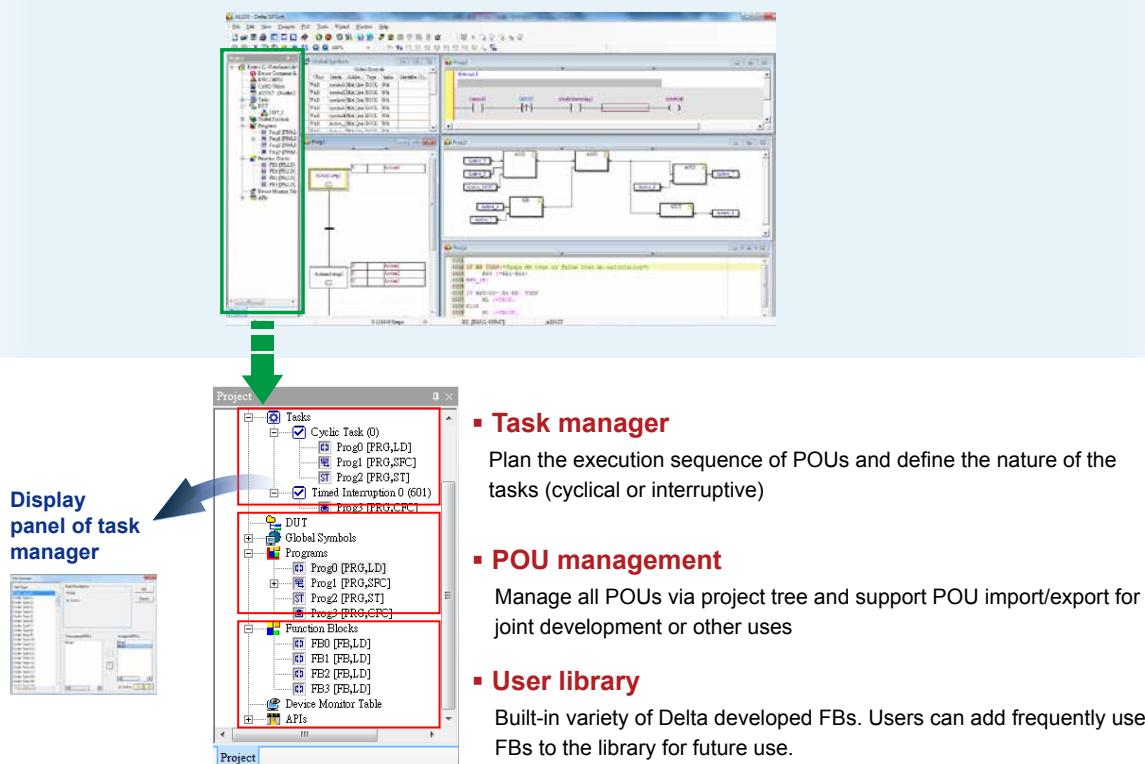


■ Modular program structure

Programming organization unit (POU) enables easy management in large-scale programs with high development efficiency.

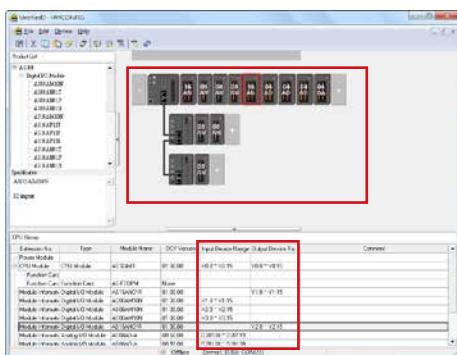


■ Modular Program Structure



Easy Hardware Configuration and Parameter Setting

HWCONFIG

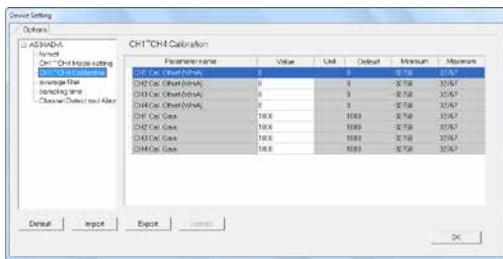


▪ Graphic panel for module configuration

Easy configuration easy configuration based on connecting equipment scanning for quick setup

▪ I/O listing

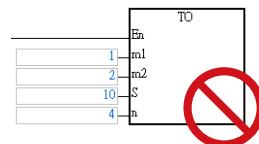
Direct display for corresponding device addresses after configuration



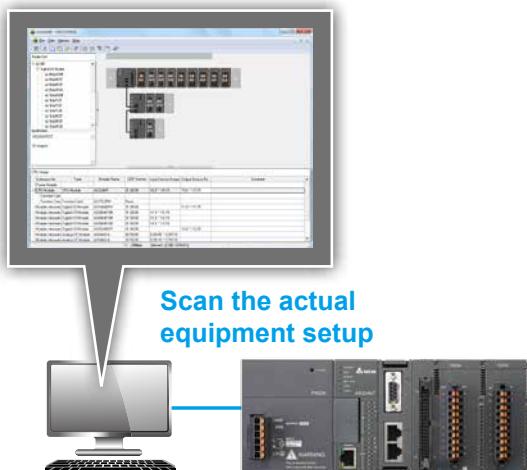
Note: Fill the table to configurae module parameters quickly.
From/To instruction is not required for module initialization.

▪ Parameter setting

Fast parameter setting on controller and modules without manual reference or programming

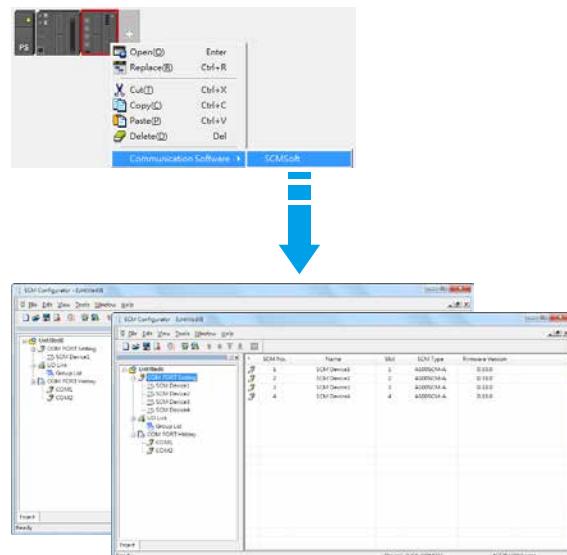


▪ Module configuration method



▪ Smart module configuration

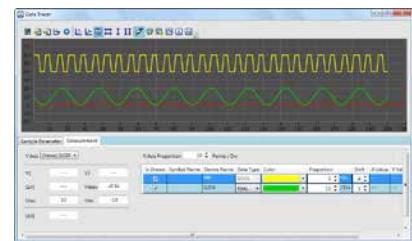
Support the advanced planning tool for a variety of network modulless



Complete Diagnosis Tools for Quick and Effective System Monitoring

Data Logger / Tracer

- Real-time
- Stable
- Precise



▪ Real-time monitoring:

High-speed tracer for fast sampling within 1 scanning cycle

▪ Stable logging:

Long-time data logger saving up to 32,768 data records, which can be transferred to SD card

▪ Precise data capture:

Support a variety of sampling intervals and trigger modes

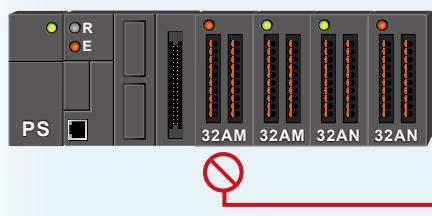
▪ Convenient comparison:

Multiple data logs in various data formats can be recorded at the same time

▪ Efficient data analysis:

Support trend display, scaling, arrangement, merge and measurement

Real-time Module Monitoring



▪ Visualized monitoring

Direct monitoring interface provides real-time status on modules via LED indicators

▪ Module comparison

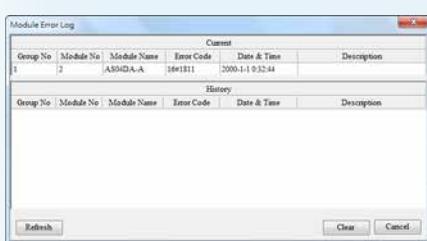
Real-time inspection of actual module settings to ensure consistency

▪ Error logs

Immediate inquiry for error messages and logs of abnormal modules

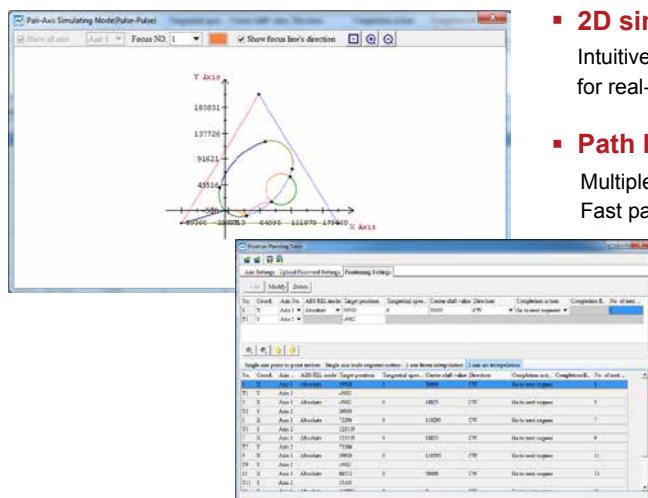
▪ Module information

Provide model name and version of current modules



Various, Convenient Software Wizard for Effortless Planning

Position planning table



■ 2D simulation

Intuitive 2D track simulation without complicated calculation for real-time path planning

■ Path list

Multiple combination for positioning modes and tracks
Fast path planning via table-structured planning

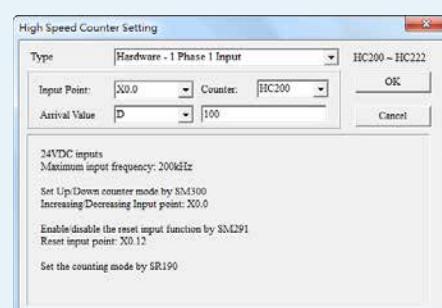
■ Axis parameter setting

Intuitive configuration interface for easy axis parameter setting without manual reference

■ High-speed counter setting tool

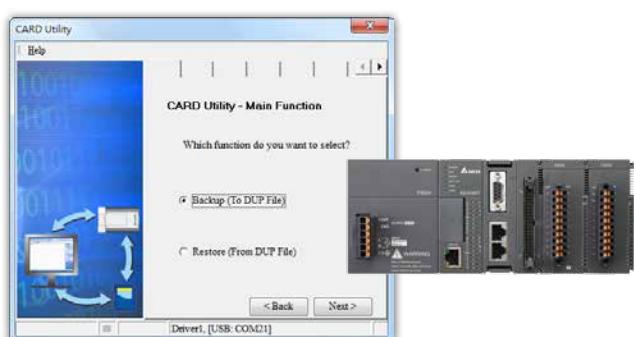
Counter index will display corresponding contact point, device and counter specification once the counting mode is chosen. Fast planning without manual reference for enhanced development efficiency.

➤ One-time setting



■ Data backup tool - CARD Utility

Friendly guidance interface for easy data backup and restore on programs, parameters and devices



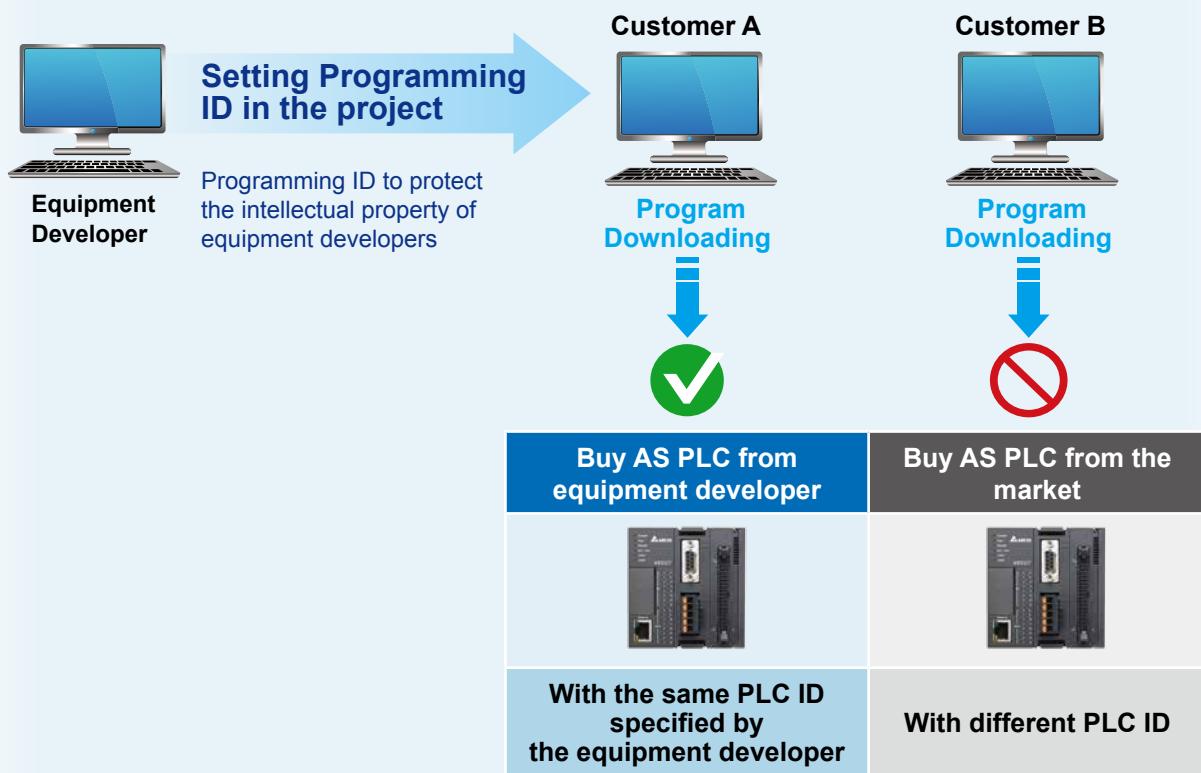
Various backup and restore methods for flexible management and operation

- Data backup to PC
- Data backup to SD card

Multiple Security Protection for Programs and Data

■ Security: provide 6 types of program protection for data safety

- 16-digit password protection on main program
- 16-digit password protection on FBs
- Access denial mechanism on error login
- Data upload protection function
- Verification between Project (Programming ID) and CPU (PLC ID)



- Prevention on direct copy from IC



Electrical and Environmental Specifications

Items		Specifications
Internal Power Consumption	CPU	150 mA
	Extension Module	Digital relay output <150 mA, Other modules < 80 mA
Operating Temperature		-20~60 °C
Storage Temperature		-40~80 °C
Operating Humidity		5~95% · non-condensing
Storage Humidity		5~95% · non-condensing
Vibration		IEC 61131-2, IEC 60068-2-6 (TEST Fc); 5 Hz ≤ f ≤ 8.4 Hz, constant amplitude 3.5 mm; 8.4 Hz ≤ f ≤ 150 Hz, constant acceleration 1g
Shock		IEC 61131-2, IEC 60068-2-27 (TEST Ea); 15g peak, 11 ms duration, half-sine
Operating Environment		Non-corrosive gas
Installation		Inside of the control panel
Pollution Degree		2
Protection Rating		IP20
Altitude		< 2,000 m

Ethernet Specifications

Items		AS324MT-A / AS332T-A / AS332P-A	Note
Protocols		MODBUS TCP · EtherNet/IP	Support the protocols at the same time
MODBUS TCP	Equipment Type	Client / Server	
	Server / Client	32 / 32	
	RTU Mapping	4 sets	
Socket	TCP / UDP Links	4 TCP / 4 UDP	
EtherNet/IP	Equipment Type	Scanner / Adapter	
	CIP	32 (Client+Server)	
		16 (Client+Server)	
	CIP_IO Connection	Requested Packet Interval (RPI)	5 ms ~ 1000 ms Preset: 20 ms
		Max. Performance	3000 pps
		Max. Capacity/Connection	500 bytes
	CIP_Explicit Message	Class 3 (Connected Type)	32 (Servers), shared with UCMM Shared with I/O Connection
		UCMM (Non-Connected Type)	32 (Clients + Servers) · shared with Class 3 Shared with I/O Connection

AS Series PLC Selection Tool

Please go to Delta's official website:

<http://www.deltaww.com/services/DownloadCenter2.aspx?secID=8&pid=2&tid=0&CID=06&itemID=060301&typeID=1&downloadID=&title=--%20Select%20Product%20Series%20-&dataTypeID=1&check=1&hl=en-US>

AS Series I/O Modules

■ Digital I/O Modules (Input)

				Rated input voltage 5~24 V _{DC}
8 inputs Faster wiring terminal block AS08AM10N-A	16 inputs Faster wiring terminal block AS16AM10N-A	32 inputs High-density MIL terminal block AS32AM10N-A	64 inputs High-density MIL terminal block AS64AM10N-A	Response time 1 ms
				Filter function 1~20 ms

■ Digital I/O Modules (Output)

				NPN (Sink) or PNP (Source) module
8 outputs Faster wiring terminal block Transistor output NPN (Sink) AS08AN01T-A	8 outputs Faster wiring terminal block Relay output AS08AN01R-A	8 outputs Faster wiring terminal block Transistor output PNP (Source) AS08AN01P-A	32 outputs High-density MIL terminal block Transistor output NPN (Sink) AS32AN02T-A	Response time 1 ms (Transistor) 10ms (Relay)

			
16 outputs Faster wiring terminal block Transistor output NPN (Sink) AS16AN01T-A	16 outputs Faster wiring terminal block Relay output AS16AN01R-A	16 outputs Faster wiring terminal block Transistor output PNP (Source) AS16AN01P-A	64 outputs High-density MIL terminal block Transistor output NPN (Sink) AS64AN02T-A

■ Digital I/O Modules (Mixed)

			NPN (Sink) or PNP (Source) module
16 inputs/outputs Faster wiring terminal block 8 inputs / 8 transistor outputs NPN (Sink)	16 inputs/outputs Faster wiring terminal block 8 inputs 8 relay outputs	16 inputs/outputs Faster wiring terminal block 8 inputs / 8 transistor outputs PNP (Source)	Rated input voltage 5~24 V _{DC} Filter function 1~20 ms
AS16AP11T-A	AS16AP11R-A	AS16AP11P-A	Screwless removable terminal block
			Response time 1ms (Transistor) 10 ms (Relay)

■ Analog I/O Modules

			Conversion time 2ms / channel	50/60 Hz filter
4 channels Analog inputs	4 channels Analog outputs	6 channels Analog inputs / outputs	Accuracy ±0.2%	4/6 CH
AS04AD-A	AS04DA-A	AS06XA-A	Voltage and current control	Differential inputs
			Module monitoring / configuration	Resolution AI: 16 bit AO: 12 bit

■ Load Cell Module

	Functions 50 / 60 Hz filter High-speed dynamic measurement 2 channels of independent sampling
2 channels AS02LC-A	Accuracy 0.4% full range 2 CH Connectable to 4-wire / 6-wire load cell sensor
Software	LCSsoft Filter function Multiple-point calibration Online monitoring / configuration

AS Series I/O Modules

■ Temperature Measurement Modules



4 channels

PT, NI temperature sensor

AS04RTD-A

Conversion time 200 ms / channel	Resolution 0.1° C / 0.1° F	Wire breaking detection
Accuracy ±0.1%	50/60 Hz filter	Module monitoring / configuration
Pt100 / Ni100 / Pt1000 / Ni1000 / JPt100 / LG-Ni1000 / Cu50 / Cu100, resistor 0~300Ω, 0~3,000Ω		



4 channels

TC temperature sensor

AS04TC-A

Conversion time 200 ms / channel	Resolution 0.1° C / 0.1° F	Disconnection detection
Accuracy ±0.1%	50/60 Hz filter	Module monitoring / configuration
J, K, R, S, T, E, N, B type thermocouple; ±100 mV		

■ Communication Modules



2 COM ports

AS00SCM-A

COM port	RS-232C	RS-422	RS-485	CANopen
Function	Selectable COM ports; supporting standard MODBUS protocol and user-defined protocol			Delta communication protocol
Software	SCMSSoft	Data exchange table for quick setup		Real-time monitoring on communication status

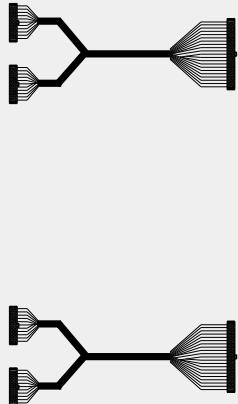
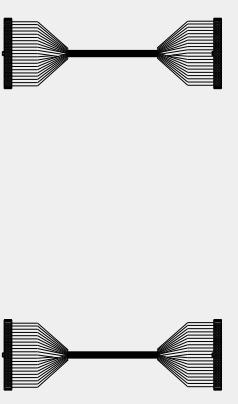
Accessory Selection for High-density Modules

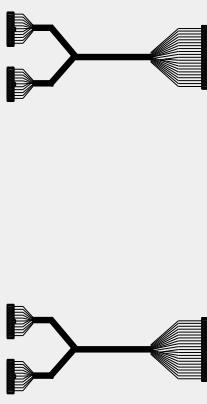
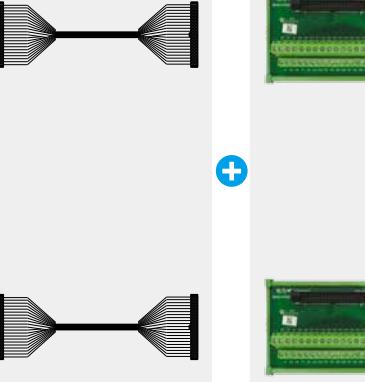
Model Name				
AS332T-A AS332P-A AS324MT-A		UC-ET010-24D (1M) UC-ET020-24D (2M) UC-ET030-24D (3M)		UB-10-ID16A
	+		+	

Model Name				
UB-10-ID16A	UC-ET010-24D (1M) UC-ET020-24D (2M) UC-ET030-24D (3M)	AS32AM10N-A	UC-ET010-24B (1M) UC-ET020-24B (2M) UC-ET030-24B (3M)	UB-10-ID32A
	+		+	

Model Name				
UB-10-ID16A or UB-10-OR16A (Relay)	UC-ET010-24D (1M) UC-ET020-24D (2M) UC-ET030-24D (3M)	AS32AN02T-A	UC-ET010-24B (1M) UC-ET020-24B (2M) UC-ET030-24B (3M)	UB-10-OT32A
	+		+	

Accessory Selection for High-density Modules

Model Name				
UB-10-ID16A	UC-ET010-24D (1M) UC-ET020-24D (2M) UC-ET030-24D (3M)	AS64AM10N-A	UC-ET010-24B (1M) UC-ET020-24B (2M) UC-ET030-24B (3M)	UB-10-ID32A
 + 		 +		

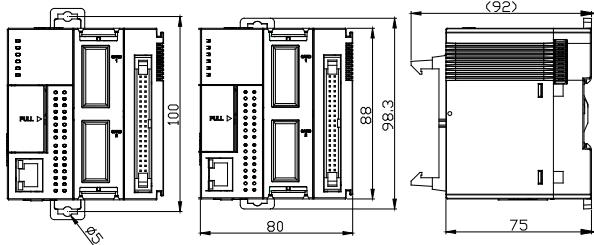
Model Name				
UB-10-ID16A or UB-10-OR16A (Relay)	UC-ET010-24D (1M) UC-ET020-24D (2M) UC-ET030-24D (3M)	AS64AN02T-A	UC-ET010-24B (1M) UC-ET020-24B (2M) UC-ET030-24B (3M)	UB-10-OT32A
 + 		 +		

Dimensions

CPU Modules

Dimensions are in mm

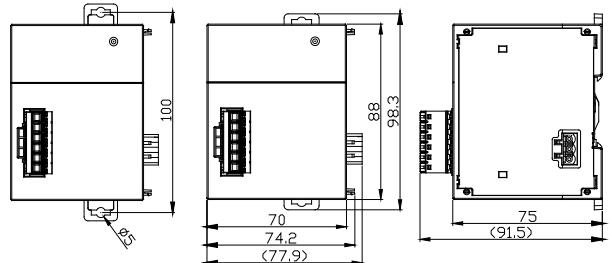
AS332T-A, AS332P-A, AS324MT-A



Power Supply Modules

Dimensions are in mm

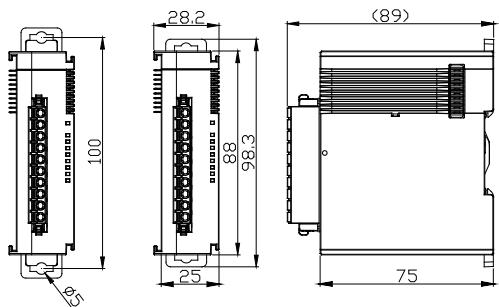
AS-PS02, AS-PS02A



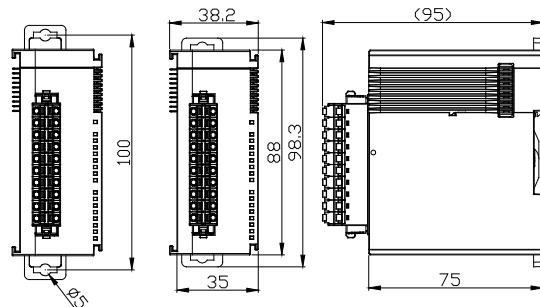
Digital I/O Modules

Dimensions are in mm

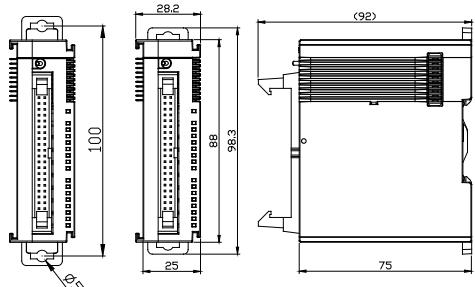
**AS08AM10N-A, AS08AN01R-A,
AS08AN01T-A, AS08AN01P-A**



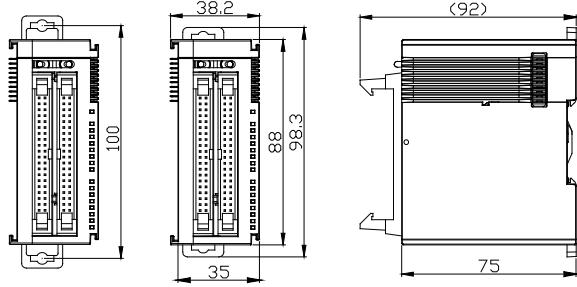
**AS16AM10N-A, AS16AN01R-A, AS16AN01T-A,
AS16AN01P-A, AS16AP11R-A, AS16AP11T-A,
AS16AP11P-A**



AS32AM10N-A, AS32AN02T-A



AS64AM10N-A, AS64AN02T-A

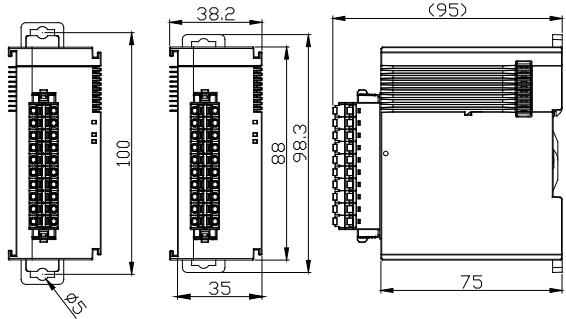


Dimensions

Analog Modules

Dimensions are in mm

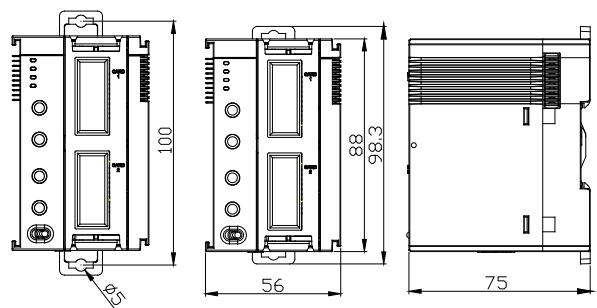
AS02LC-A, AS04AD-A, AS04DA-A,
AS04TC-A, AS04RTD-A, AS06XA-A



Communication Modules

Dimensions are in mm

AS00SCM-A



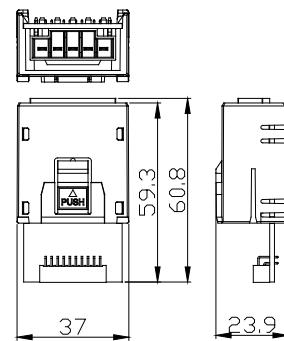
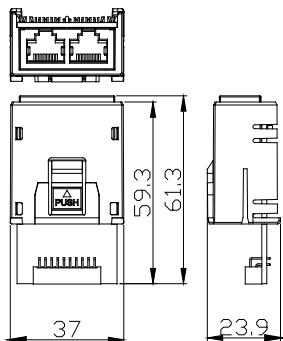
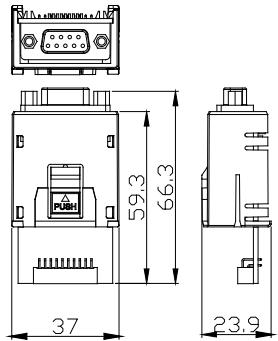
Function Cards

Dimensions are in mm

AS-F232

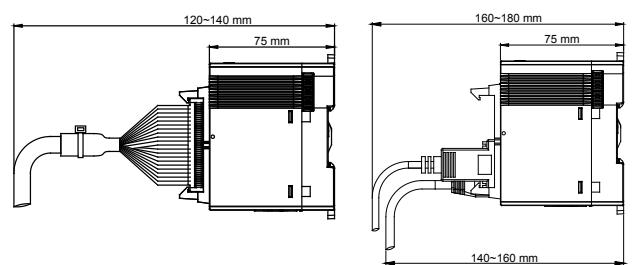
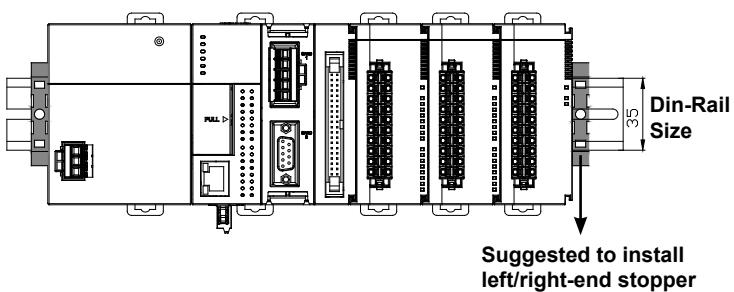
AS-FCOPM

AS-F2AD, AS-F2DA,
AS-F422, AS-F485



Installation Notes

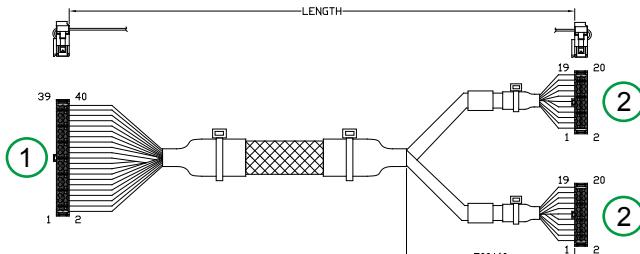
Dimensions are in mm



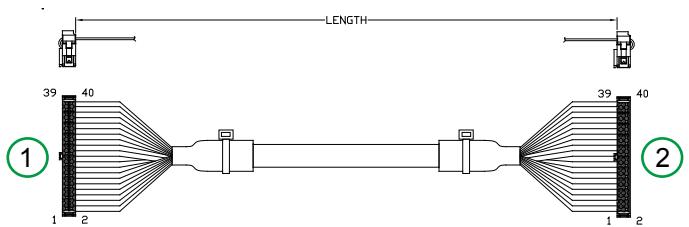
Cable (MIL)

Dimensions are in mm

UC-ET010-24D (1M) , UC-ET020-24D (2M) ,
UC-ET030-24D (3M)



UC-ET010-24B (1M) , UC-ET020-24B (2M) ,
UC-ET030-24B (3M)



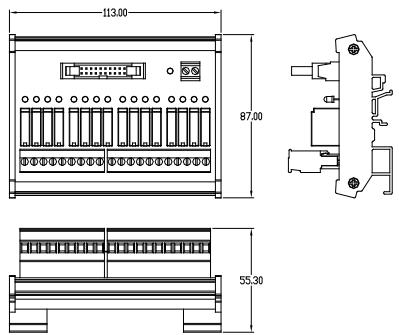
Serial	Name	Description
(1)	40-pin terminal	Connect to modules
(2)	20-pin terminal	Connect to external terminal modules UB-10-ID16A or UB-10-OR16A or UB-10-OR16B

Serial	Name	Description
(1)	40-pin terminal	Connect to modules
(2)	40-pin terminal	Connect to external terminal modules UB-10-ID32A or UB-10-OT32A

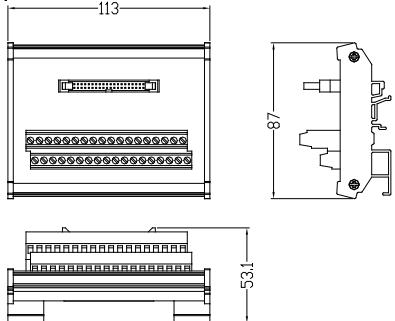
External Terminal Modules

Dimensions are in mm

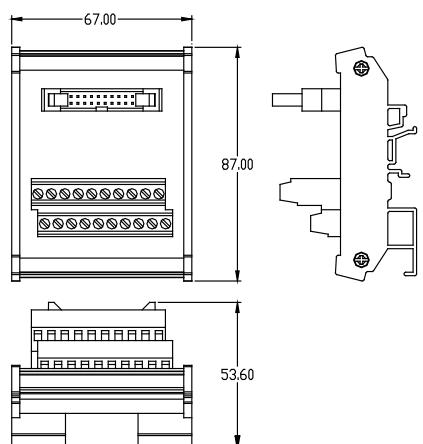
UB-10-OR16A, UB-10-OR16B



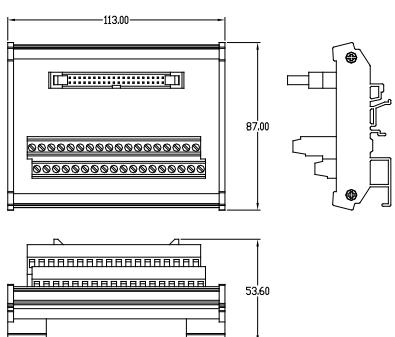
UB-10-OT32A



UB-10-ID16A



UB-10-ID32A



Ordering Information

■ CPU Module

Name	Model	Program Capacity	Data Register	Instruction Speed / Performance		Built-in Communication	Memory Card
CPU	AS332T-A	128k steps	60k words	LD: 25 ns MOV: 0.15 µs	40 k steps / 1 ms (LD 40%, MOV 60%)	USB, RS-485*2, Ethernet	Micro SD Max. 32GB
	AS332P-A						
	AS324MT-A						

Name	Model	I/O Type / Terminal Block Type	Built-in I/O	Axes Controlled	Max. inputs & outputs / Extension Module (Max. Extension Racks)	Certification
CPU	AS332T-A	NPN (Sink) / MIL connector	32 (16 in / 16 out)	Built-in 6 axes (or 12 channels) 200 kHz	1,024 inputs & outputs / 32 modules (Max. 15 extension racks)	CE/UL
	AS332P-A	PNP (Source) / MIL connector				
	AS324MT-A	Differential / MIL connector	24 (12 in / 12 out)	Built-in 2 axes 4 MHz / 4 axes 200 kHz		

■ Software

Product Name	License	Descriptions	Supported Device
ISPSofT [V3]	Free	PLC programming software	AS Series, AH Series, DVP Series
COMMGR [V1]	Free	Communication management software	AS Series, AH Series, DVP Series
DCISoft [V1]	Free	Ethernet configuration software	AH series Ethernet / serial communication modules, AS series SCM module, DVP series built-in Ethernet PLCs, DVP series Ethernet / serial communication modules, IFD series Ethernet modules
	Free	SCM serial communication module planning software	AS Series, AH Series, DVP Series SCM communication modules
CANopen Builder [V5]	Free	CANopen configuration software/ motion control programming software	AS Series, AH Series, DVP Series built-in CANopen communication modules
EIP Builder [V1]	Free	EtherNet/IP configuration software	AS Series, AH Series, DVP Series built-in Ethernet communication modules

■ Power Supply Module

Name	Model	Input	Output	Certification
Power Supply Module	AS-PS02	100~240 V _{AC}	24 V _{DC} , 2A (for modules on the rack)	CE/UL
	AS-PS02A		24 V _{DC} , 1.5A (for modules on the rack) 24 V _{DC} , 0.5A (for external I/O)	

Ordering Information

■ Analog I/O Module

Name	Model	Channel	Mode	Terminal Block Type	Power Consumption (Internal)	Specifications	Certification
Analog Input Module	AS04AD-A	4	1~5V 0~5V -5~5V 0~10V -10~10V 4~20mA 0~20mA -20~20mA		1.2W / 2.5W	<ul style="list-style-type: none"> Hardware resolution: 16-bit Single channel on/off setting to enhance overall conversion efficiency Conversion time: 2ms / channel Wire break detection at 1~5V, 4~20mA modes 	
Analog Output Module	AS04DA-A	4	0~10V -10~10V 4~20mA 0~20mA	Removable terminal block	1.2W / 3W	<ul style="list-style-type: none"> Hardware resolution: 12-bit Single channel on/off setting Conversion time : 250 µs / channel 	CE/UL
Analog Input / Output Module	AS06XA-A	Input: 4 Output: 2	<ul style="list-style-type: none"> Input: 1~5V 0~5V -5~5V 0~10V -10~10V 4~20mA 0~20mA -20~20mA Output: 0~10V -10~10V 4~20mA 0~20mA 		1.2W / 2.5W	<ul style="list-style-type: none"> Input resolution: 16-bit Output resolution: 12-bit Single channel on/off setting to enhance overall conversion efficiency Conversion time: 2ms / channel Wire break detection at 1~5V, 4~20mA modes 	

■ Temperature Measurement Module

Name	Model	Channel	Mode	Terminal Block Type	Power Consumption (Internal)	Specifications	Certification
RTD Temperature Measurement Module	AS04RTD-A	4	Pt100 Ni100 Pt1000 Ni1000 JPt100 LG-Ni1000 Cu50 Cu100 Input Impedance 0~300Ω 0~3,000Ω	Removable terminal block	2W / 1W	<ul style="list-style-type: none"> • Resolution 0.1° C / 0.1° F • Conversion time: 200 ms / channel • Accuracy ±0.1% • Wire break detection • Module monitoring, setting 	CE/UL
Thermocouple Temperature Measurement Module	AS04TC-A	4	J, K, R, S, T, E, N, B -100~+100 mV				

■ Load Cell Module

Name	Model	Channel	Mode	Terminal Block Type	Power Consumption (Internal)	Specifications	Certification
Load Cell Module	AS02LC-A	2	0~1 0~2 0~4 0~6 0~20 0~40 0~80 mV/V	Removable terminal block	0.75 W / 3 W	<ul style="list-style-type: none"> • Resolution: 24-bit • 4-wire / 6-wire load cell sensor • Selectable signal input ranges • LCSoft software configuration • High-speed dynamic measurement • 50 / 60 Hz active filtering 	CE/UL

■ Accessories

Name	Model	Descriptions	Specifications		Applicable Module
			Length	Connector / Terminal Block Type	
I/O Cable	UC-ET010-24B	I/O cable for connecting I/O modules and external terminal modules	1m	I/O extension cable (MIL connector IDC40 to IDC40) (Shielded)	AS32AM, AS64AM, AS32AN, AS64AN
	UC-ET010-24D		1m	I/O extension cable (MIL connector IDC40 to IDC20 x 2) (Shielded)	AS332T, AS332P, AS324MT, AS32AM, AS64AM, AS32AN, AS64AN
	UC-ET020-24B		2m	I/O extension cable (MIL connector IDC40 to IDC40) (Shielded)	AS32AM, AS64AM, AS32AN, AS64AN
	UC-ET020-24D		2m	I/O extension cable (MIL connector IDC40 to IDC20 x 2) (Shielded)	AS332T, AS332P, AS324MT, AS32AM, AS64AM, AS32AN, AS64AN
	UC-ET030-24B		3m	I/O extension cable (MIL connector IDC40 to IDC40) (Shielded)	AS32AM, AS64AM, AS32AN, AS64AN
	UC-ET030-24D		3m	I/O extension cable (MIL connector IDC40 to IDC20 x 2) (Shielded)	AS332T, AS332P, AS324MT, AS32AM, AS64AM, AS32AN, AS64AN
External terminal module	UB-10-ID16A	External terminal module of digital input/output module	--	16 inputs or outputs (MIL connector, 20Pin)	AS332T, AS332P, AS324MT, AS32AM, AS64AM, AS32AN, AS64AN
	UB-10-ID32A			32 inputs (MIL connector, 40Pin)	AS32AM, AS64AM
	UB-10-OT32A			32 transistor outputs, MIL connector, for NPN output	AS32AN, AS64AN
	UB-10-OR16A			16 relay outputs, MIL connector, for NPN output	AS332T, AS32AN02T, AS64AN02T
	UB-10-OR16B			16 relay outputs, MIL connector, for PNP output	AS332P



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Industrial Automation Headquarters

Delta Electronics, Inc.
Taoyuan Technology Center
18 Xinglong Road, Taoyuan District,
Taoyuan City 33068, Taiwan (R.O.C.)
TEL: 886-3-362-6301 / FAX: 886-3-371-6301

Asia

Delta Electronics (Jiangsu) Ltd.
Wujiang Plant 3
1688 Jiangxing East Road,
Wujiang Economic Development Zone
Wujiang City, Jiang Su Province, P.R.C. 215200
TEL: 86-512-6340-3008 / FAX: 86-769-6340-7290

Delta Greentech (China) Co., Ltd.
238 Min-Xia Road, Pudong District,
ShangHai, P.R.C. 201209
TEL: 86-21-58635678 / FAX: 86-21-58630003

Delta Electronics (Japan), Inc.
Tokyo Office
2-1-14 Minato-ku Shibadaimon,
Tokyo 105-0012, Japan
TEL: 81-3-5733-1111 / FAX: 81-3-5733-1211

Delta Electronics (Korea), Inc.
1511, Byucksan Digital Valley 6-cha, Gasan-dong,
Geumcheon-gu, Seoul, Korea, 153-704
TEL: 82-2-515-5303 / FAX: 82-2-515-5302

Delta Electronics Int'l (S) Pte Ltd.
4 Kaki Bukit Ave 1, #05-05, Singapore 417939
TEL: 65-6747-5155 / FAX: 65-6744-9228

Delta Electronics (India) Pvt. Ltd.
Plot No 43 Sector 35, HSIIDC
Gurgaon, PIN 122001, Haryana, India
TEL : 91-124-4874900 / FAX : 91-124-4874945

Americas

Delta Products Corporation (USA)
Raleigh Office
P.O. Box 12173, 5101 Davis Drive,
Research Triangle Park, NC 27709, U.S.A.
TEL: 1-919-767-3800 / FAX: 1-919-767-8080

Delta Greentech (Brasil) S.A.
Sao Paulo Office
Rua Itapeva, 26 - 3º andar Edificio Itapeva One-Bela Vista
01332-000-São Paulo-SP-Brazil
TEL: 55 11 3568-3855 / FAX: 55 11 3568-3865

Europe

Deltronics (The Netherlands) B.V.
Eindhoven Office
De Witbogt 20, 5652 AG Eindhoven, The Netherlands
TEL: 31-40-2592850 / FAX: 31-40-2592851

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