

The Smart Solution for Industrial Machines and System Integration



Automation for a Changing World

## Delta Programmable Logic Controller AH500 Series



[www.deltaww.com](http://www.deltaww.com)



## AH - Automation System for High-level Applications

The new generation AH Series PLC provides automation solutions for high-level applications. The combination of modularized hardware structure, advanced functions, and the highly integrated software provides a system solution for process control applications. In addition to various function blocks, excellent price / performance, and an abundant selection of extension modules, the AH Series PLC also provides exceptional system expandability, greatly reducing the system cost for a broad range of applications.





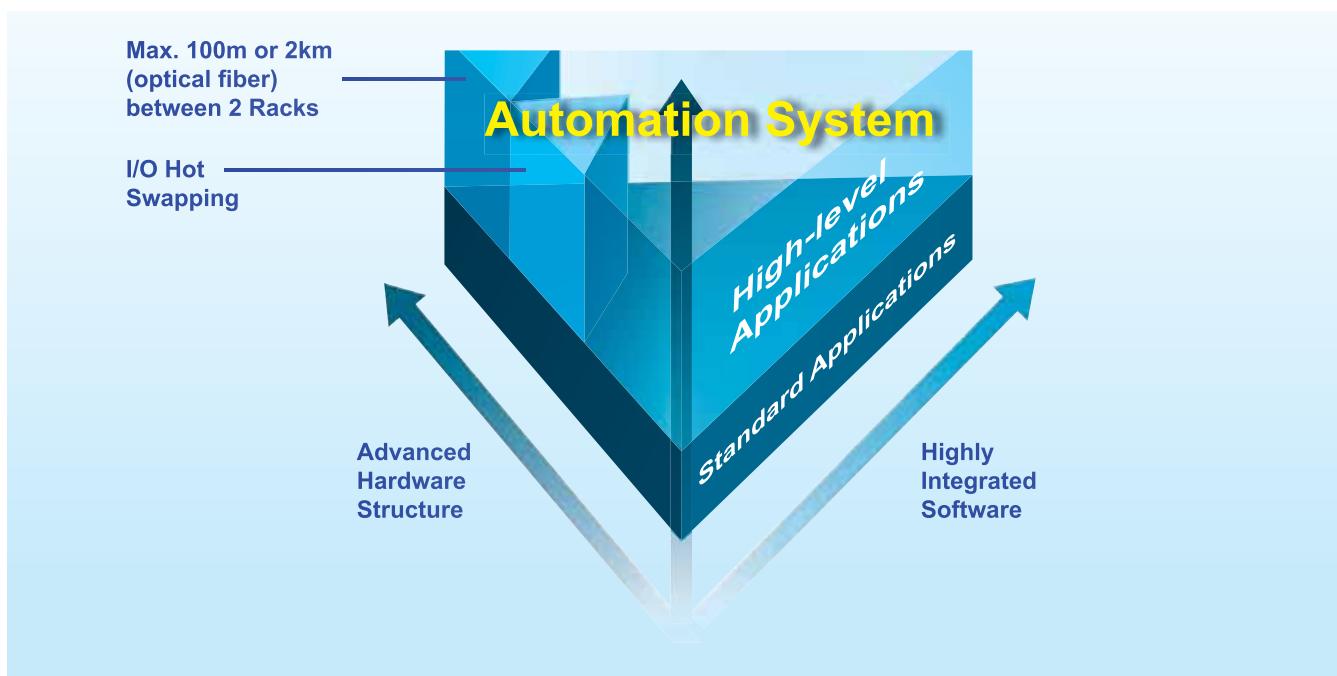
## AH500 Series

- » Highly integrated software ISPSoft: graphical interface with 5 programming languages
- » Enhanced flexibility: Max. 100m or 2km (optical fiber) between 2 local extension racks
- » Hot-swapping function keeps the system running for improved maintainability
- » Reliable operations of the supported modules in severe conditions
  - < Operating condition: -20~60°C / 5~95% (No condensation)
  - < Storage condition: -40~70°C / 5~95% (No condensation)

- ▶ Utilizes a dual-core multi-tasking processor
- ▶ Max. I/O points:
  - DIO: Max. 4,352 points
  - AIO: Max. 544 channels
- ▶ Program capacity: Max. 256K steps  
Data register (D+L): 128K words
- ▶ Excellent program execution speed:  
LD instruction execution speed: 0.1µs
- ▶ CPU built-in with fully isolated  
RS-232 / 422 / 485, Mini-USB, Ethernet,  
SD Card 1.0
- ▶ Abundant selection of DIO modules,  
AIO modules, temperature measurement  
modules, network modules, pulse-train  
modules and DMCNET motion control  
modules.

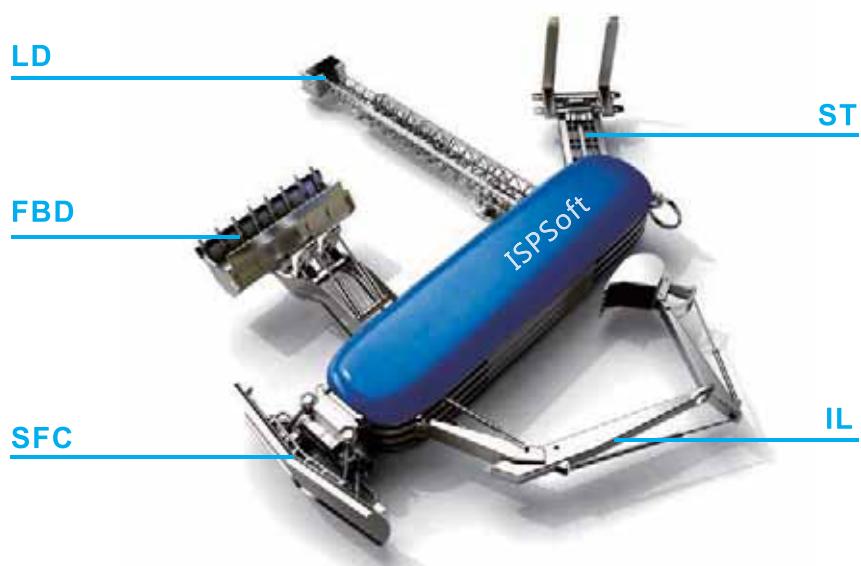


# AH500 Series PLC – Automation System with Fully Integrated Hardware and Software Interfaces



## Highly Integrated Software – Excellent Accessibility

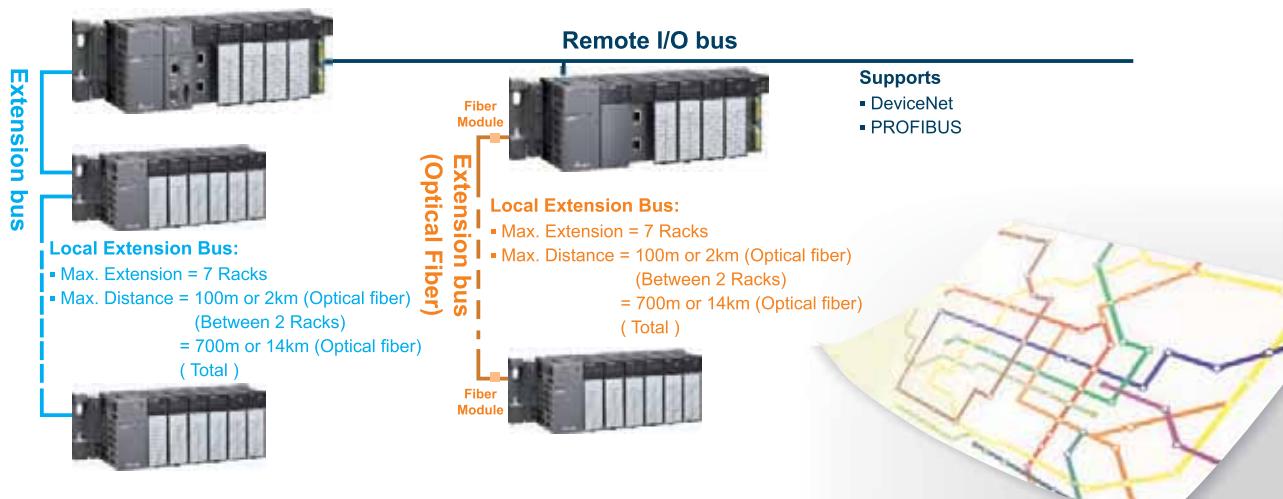
AH500 series PLCs adopt the highly accessible programming software ISPSoft, integrating the main functions that include control process programming, hardware configuration, network configuration, and providing a graphical interface for these functions. In addition, users of ISPSoft can choose their most efficient programming tools from the 5 supported languages: Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC), Instruction List (IL) and Structured Text (ST).



## Enhanced Flexibility – Extends the System Freely

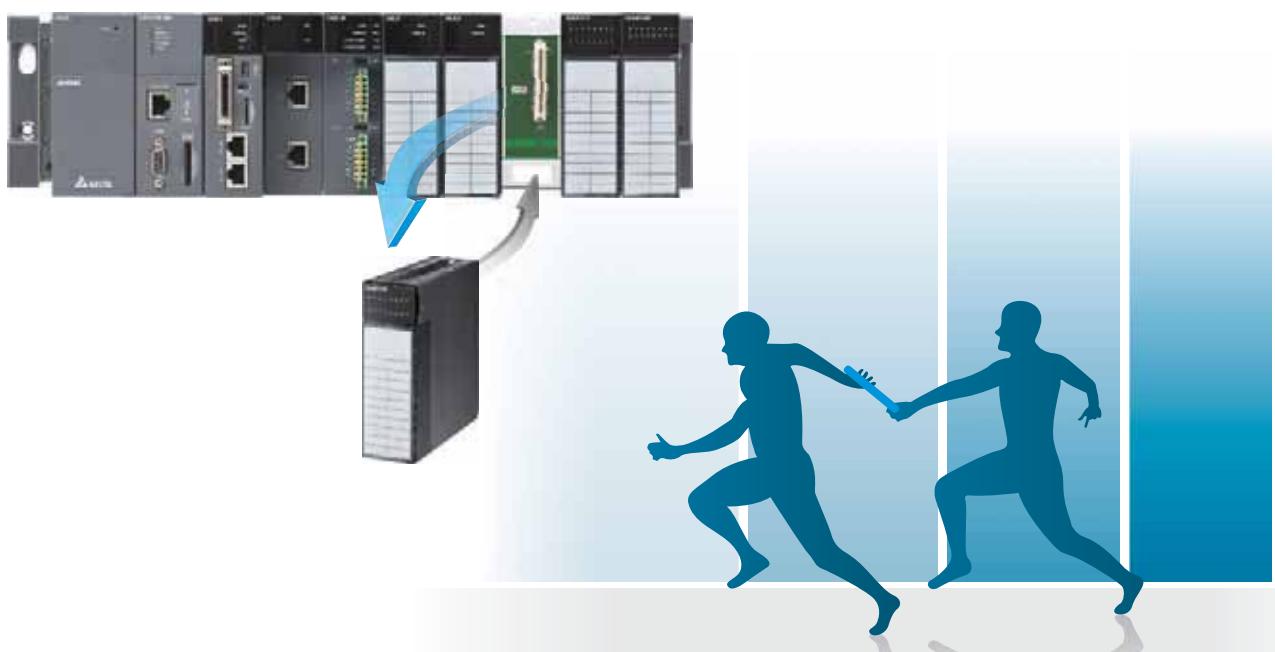
The length of extension cables between each AH500 local extension rack can reach a maximum of 100m or 2km (optical fiber), greatly enhancing wiring flexibility. In addition, the AH500 provides modularized backplanes and modules applicable for not only CPU racks but also for remote I/O racks. This feature improves the flexibility of system planning and reduces the additional cost that might be generated by preparing two different types of spare backplanes and modules.

### System Extension Structure



## Improved Maintainability – Keeps the System Running

The hot-swap function provided for AIO and DIO modules increases maintainability when I/O modules fail. Users can replace modules without stopping the operation of the CPU module, preventing a possible loss due to a pause in the system's operation.



# Motion Control Platform for Convenient Multi-axes Applications

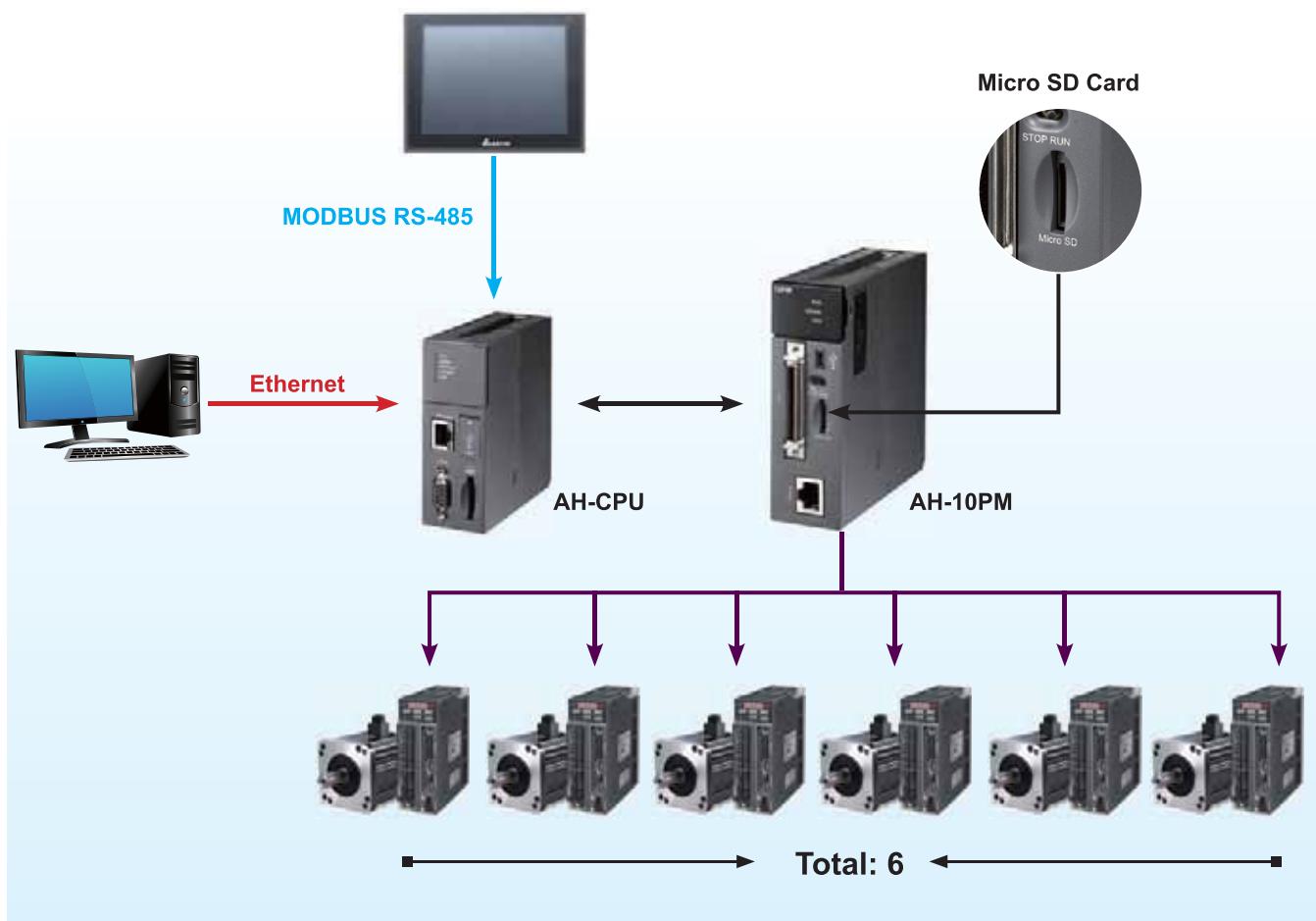
## Pulse train motion control module AH05PM / AH10PM / AH15PM

- ▶ AH05PM / AH10PM / AH15PM is designed to perform independent operations. It features a built-in CPU for programming and execution that greatly improves control efficiency.
- ▶ Execution speed: LD instruction @0.13μs
- ▶ Capacity: 64K steps
- ▶ Data register: D=10K words / W=64K words
- ▶ Motion Control Functions
  - > Controllable axis: 2 axes (AH05PM) / 6 axes (AH10PM) / 4 axes (AH15PM)
  - > Supports UD / PD / AB / 4AB input modes and 1M Hz output
  - > Supports MPG inputs / E-Cam / G-code / 2~6 axes axes linear interpolation / 2 axes arc interpolation / 3 axes helical interpolation (AH10PM / AH15PM)



## System Control Structure

### Example: AH10PM



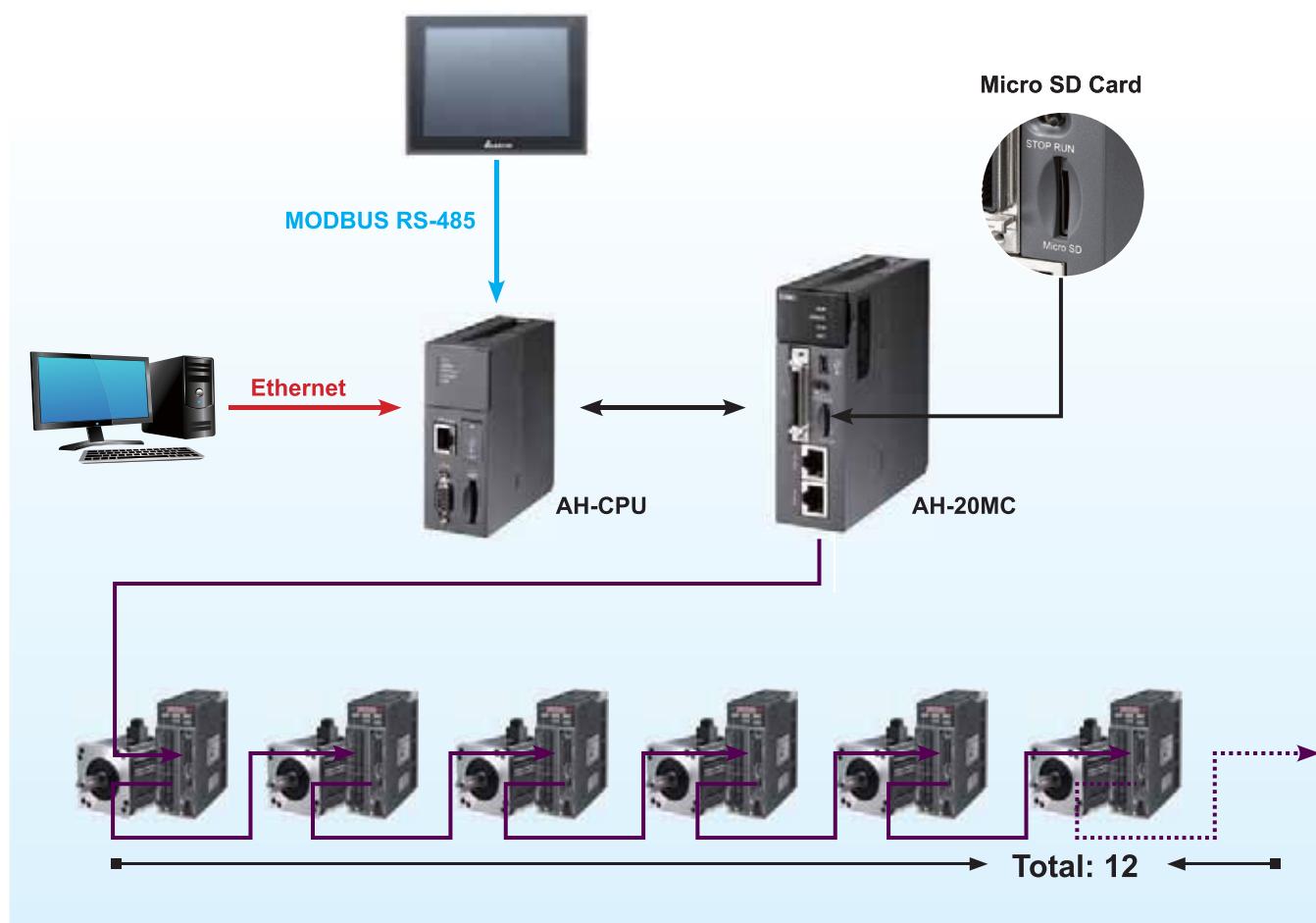
## DMCNET communication motion control module AH20MC

- ▶ AH20MC is designed to perform independent operations.  
It features a built-in CPU for programming and execution  
that greatly improves control efficiency.
- ▶ Execution speed: LD instruction @0.13µs
- ▶ Capacity: 64K steps
- ▶ Data register: D=10K words / W=64K words
- ▶ Motion Control Functions
  - > Controllable axis: 12 axes
  - > Synchronous time: 12 axes @1ms
  - > Supports MPG inputs / E-Cam / G-code / 2~6 axes linear interpolation /  
2 axes arc interpolation / 3 axes helical interpolation



## System Control Structure

Example: AH20MC





## Application Examples

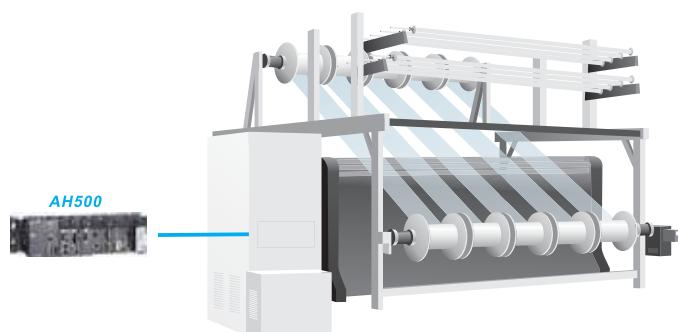
### Large Scale Industrial Machines

The features of the AH500 can easily fulfill the system requirements of large scale industrial machines. By utilizing its unique local extension capability with versatile combinations of I/O modules, the AH500 can simplify the complex remote I/O system structure in large scale industrial machines with a local I/O system consisting of a single CPU rack and local extension racks, maintaining a high execution speed and lowering the wiring cost.

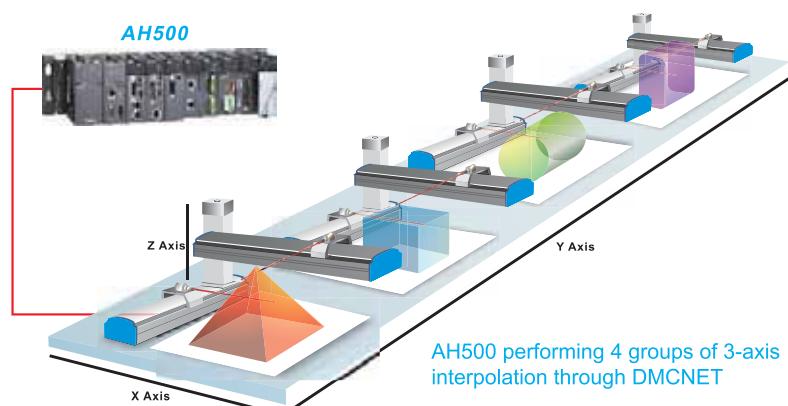
#### Building Material Processor



#### Warp Knitting Machine



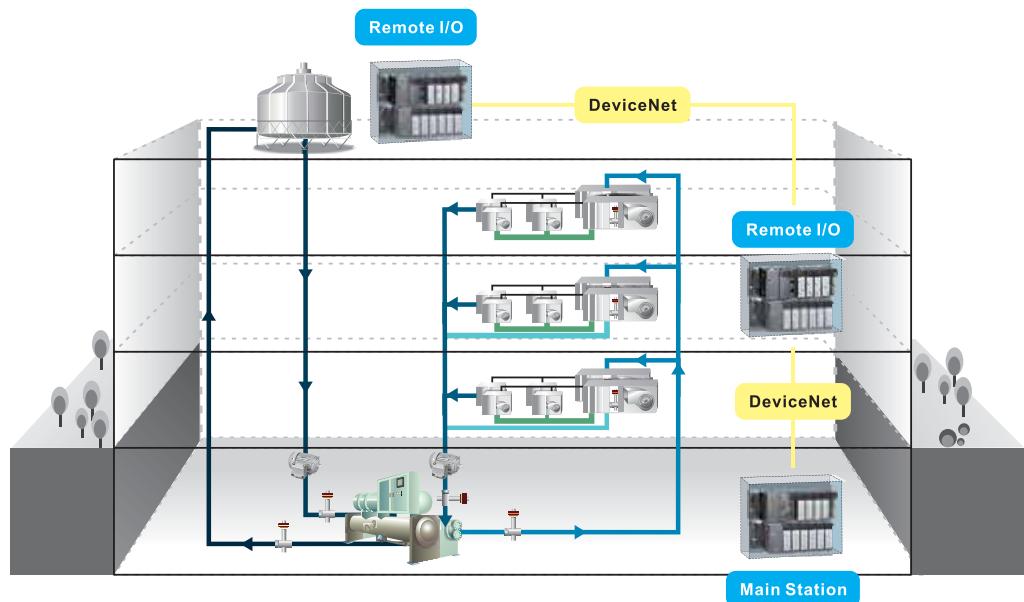
The AH500 also supports excellent motion control functions including 3-axis linear interpolation, 2-axis arc interpolation, and 3-axis helical interpolation. In addition, the AH500 is capable of controlling up to 12 axes or 4 groups of 3-axis interpolation synchronously through Delta's high speed motion control network DMCNET.



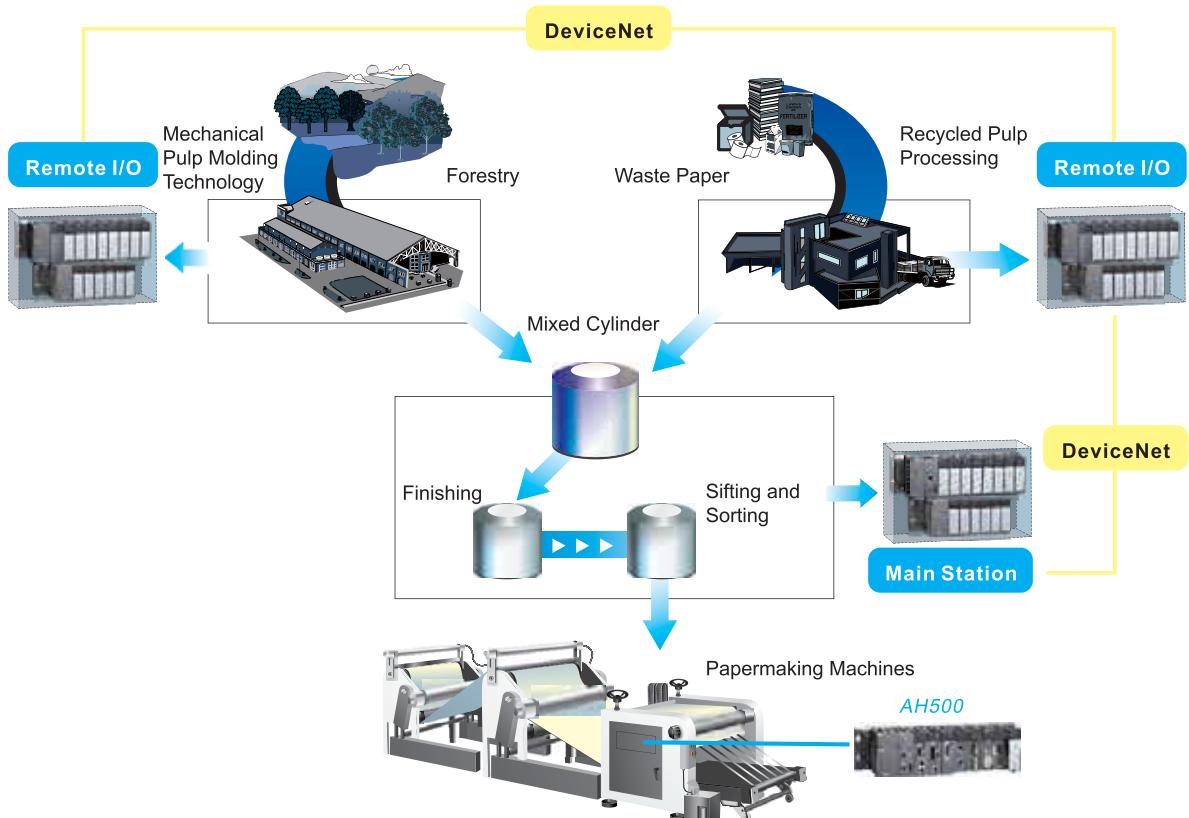
## System Applications

The AH500 is a modular system controller designed for almost all kinds of high-level automation tasks. The abundant selection of I/O modules and the flexible system structure provide best solutions for all types of system integration requirements. Through the remote I/O expandability, you can build up the AH500 main station as a central control system and allocate the remote I/O systems on different floors for HVAC applications, or in different processing stations for the paper-making industry. The AH500 can not only fulfill the application requirements of industrial machines or devices, but it can also provide total solutions for automation systems.

### HVAC



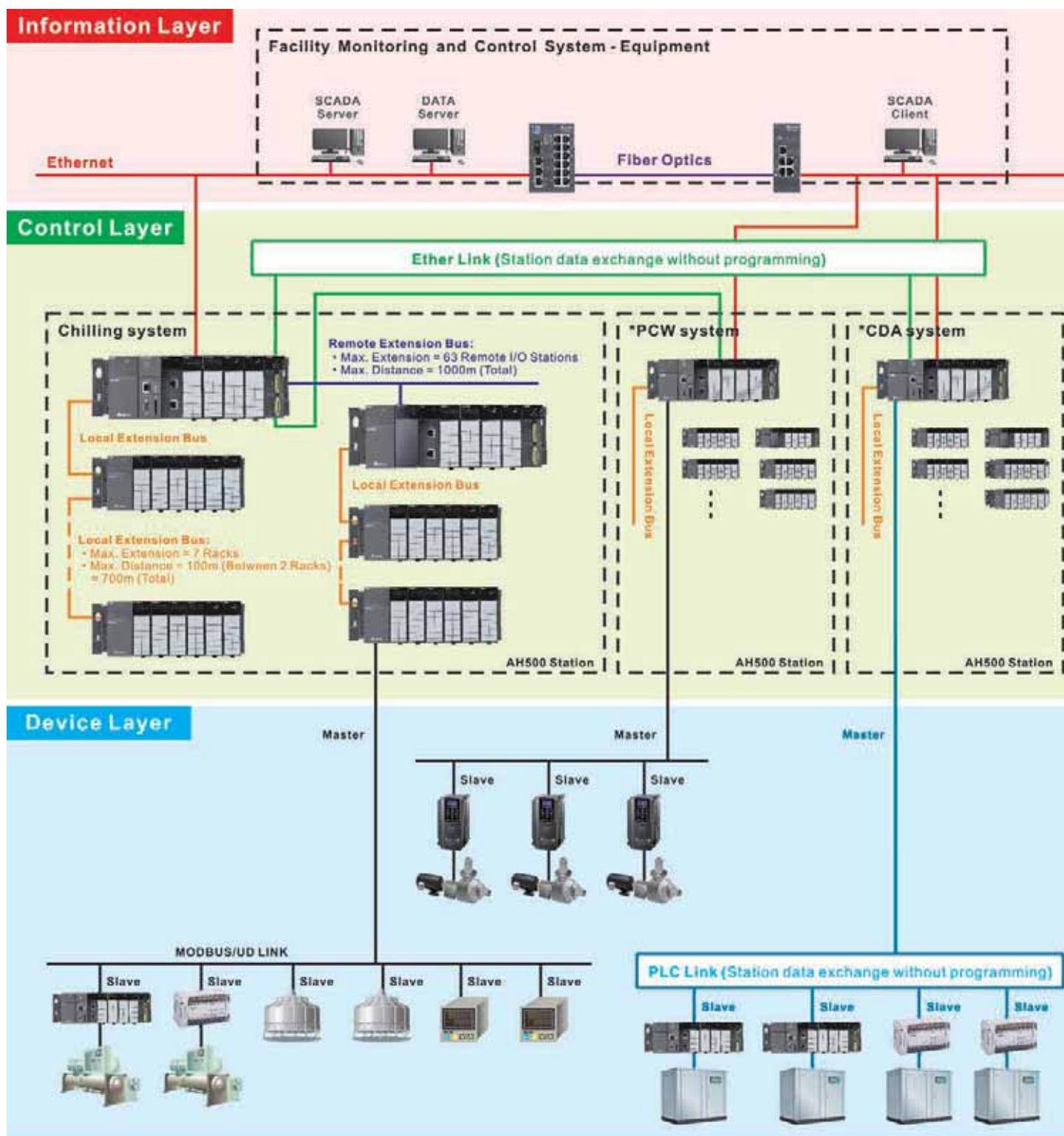
### Papermaking Industries



# AH500 System Structure – Facility Monitoring and Control System

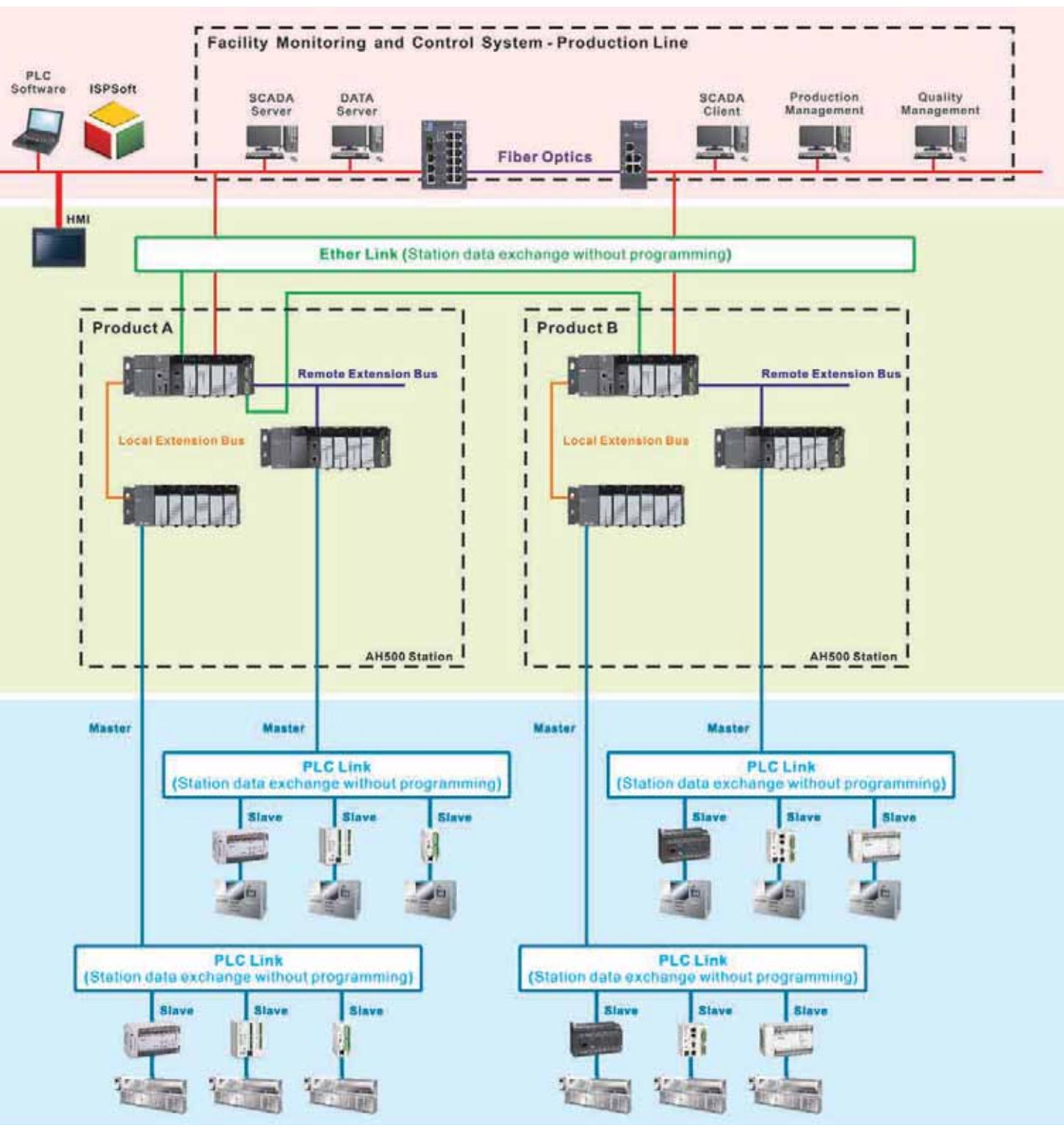
The system configuration of the AH500 is well demonstrated by the Facility Monitoring and Control System (FMCS).

The AH500 in the control layer connects multiple facility systems and product processing systems and performs data exchange without programming through Delta's convenient PLC Link and Ether Link. PLC Link can be applied for data exchange between masters and slaves, and Ether Link can be applied for data exchange between AH500 master stations. The smart communication feature can save you time spent in programming.



\* [Note] PCW system: Process Cooling Water System ; CDA system: Clean Dry Air System

In addition to AH500 PLCs, Delta's industrial automation solution includes human machine interfaces (HMI), DVS series industrial Ethernet switches, DVP series PLCs, AC motor drives, AC servo drives and temperature controllers. You can find the best solution for your industry from our product lines across device layer, control layer and information layer.

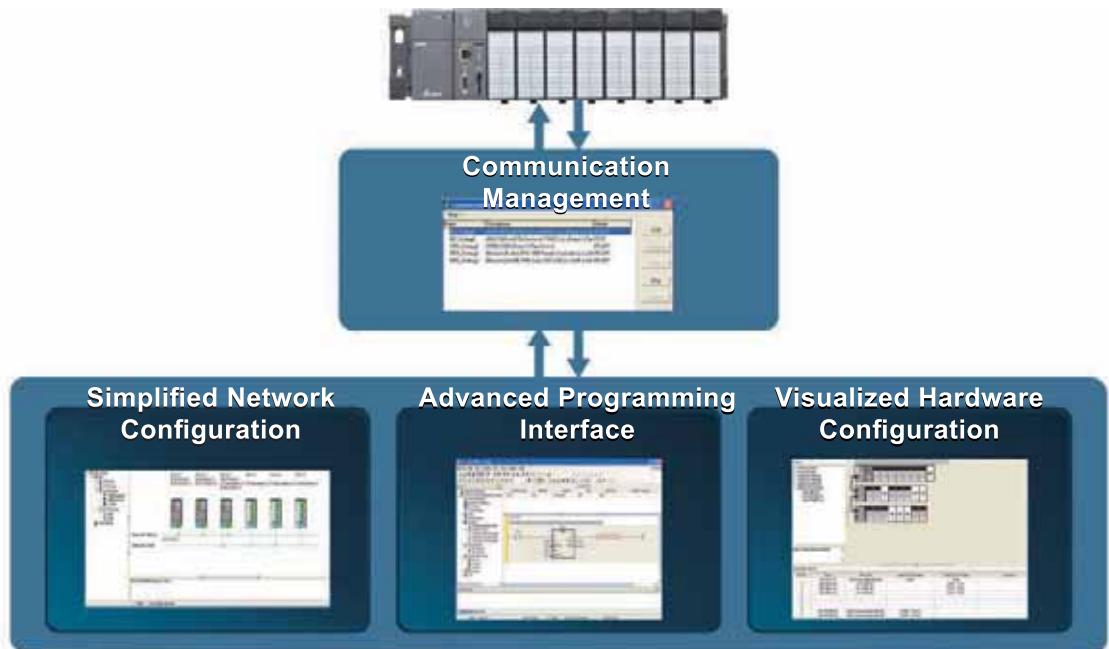


# ISPSofT V2.0

## Highly Accessible Programming Software

### Fully Integrated Interface

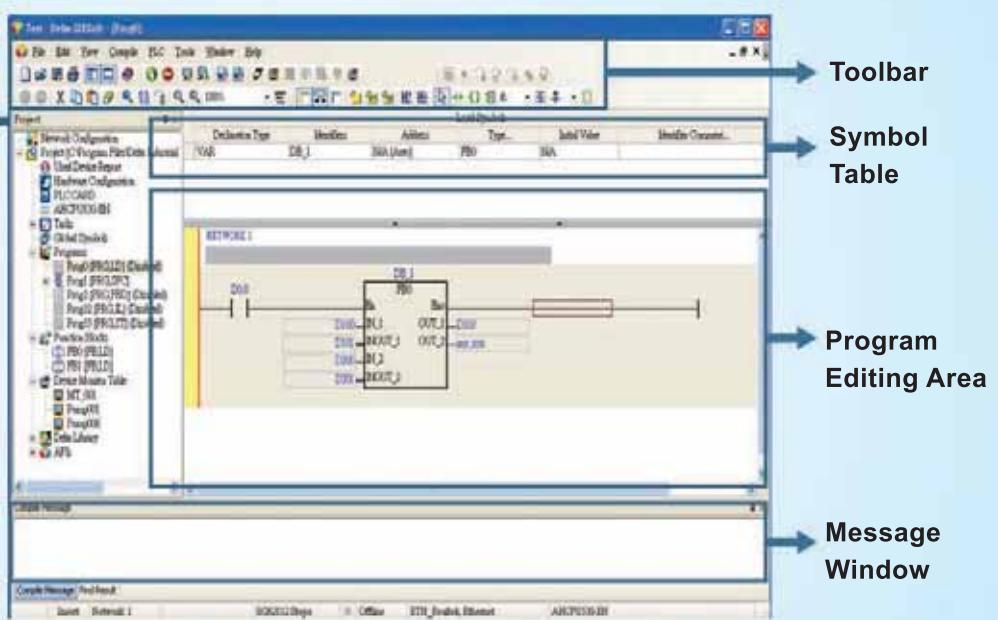
Advanced Programming Interface + Visualized Hardware Configuration + Simplified Network Configuration



### Advanced Programming Interface

#### Project Management Window

- **New Functions:** Network configuration, hardware configuration and PLC card.
- Supports 5 programming languages (LD / FBD / SFC / IL / ST)
- **Function Blocks:** Symbols can be introduced in call-by-value or call-by-reference types. Function blocks can be called in function block for up to 32 levels.
- **Monitor Table:** It can be stored and managed separately. Multiple monitor tables can be stored in a single project.
- **User Library:** Users can design frequently used instructions for specific applications in different industries.
- **Task:** Supports cyclic, I/O interrupt, timer interrupt, external interrupt, and more. Software will provide usable tasks for different CPUs.



## Visualized Hardware Configuration

**Module Selection**

**Module Description**

**Toolbar**

- System hardware configuration can be monitored in On-Line mode
- Hardware configuration can be displayed by Scan function

**Hardware Configuration Area**

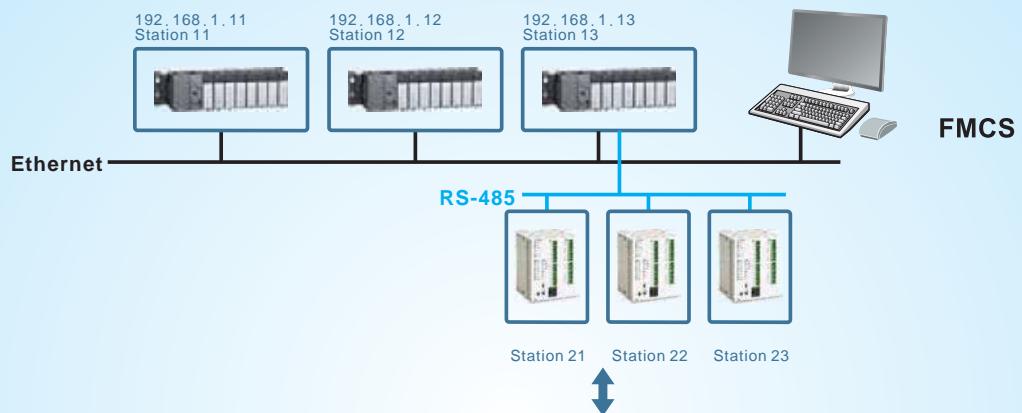
- Operations of Cut / Copy / Paste / Delete are available for modules and racks
- Parameters of each module can be directly configured

**Rack Information**

- I/O device range can be specified by the user

Slot No.	Slot	Description	Input Device Range	Output Device Range	Comments
1	AI010A-1A	AI010A-Digital Module			
2	AI020A-1B	All I/Os-Digital	000-1000	000-1000	
3	AI030A-1B	AI030A-Digital	000-1000	000-1000	
4	AI040A-1B	AI040A-Digital	000-1000	000-1000	
5	AI050A-1A	AI050A-Digital	000-1000	000-1000	
6	AI060A-1A	AI060A-Digital	000-1000	000-1000	
7	AI070A-1A	AI070A-Digital	000-1000	000-1000	
8	AI080A-1A	AI080A-Digital	000-1000	000-1000	

## Simplified Network Configuration



**Network Device Selection**

**Toolbar**

**Network Configuration Area**

- Master device settings
- Ether Link editing function
- PLC Link editing function

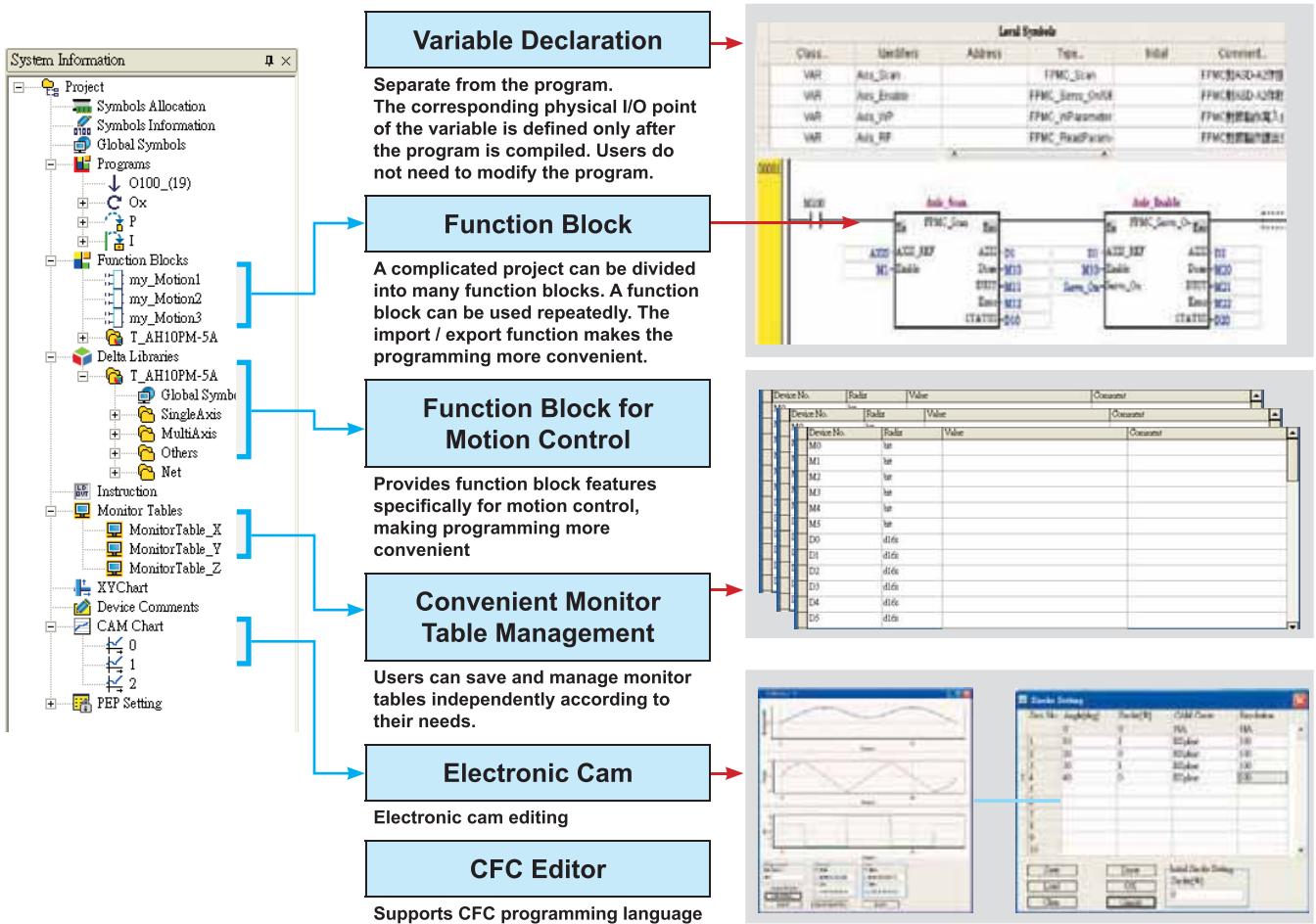
**Network Information**

**Ether Link**

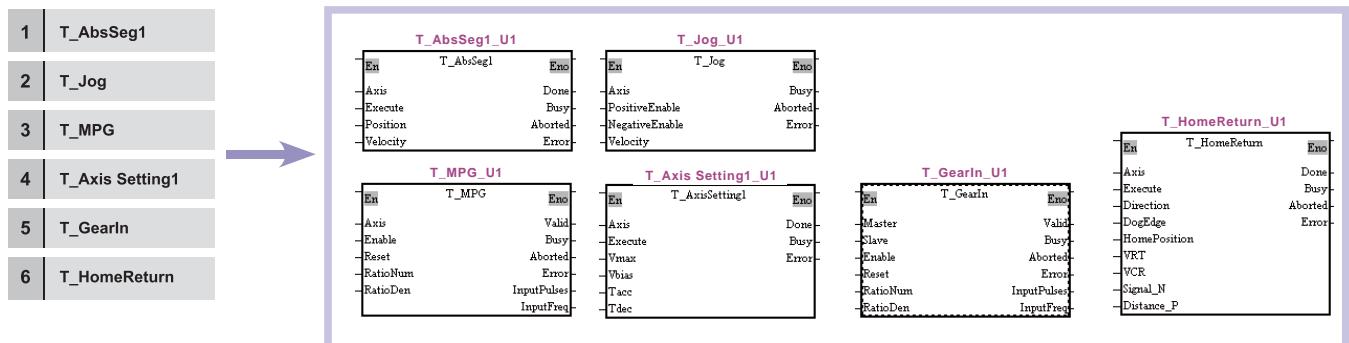
**PLC Link**

# PMSoft V2.0

This programming software is for G-code editing, motion trajectory simulation, positioning route instruction and electronic cam establishment.

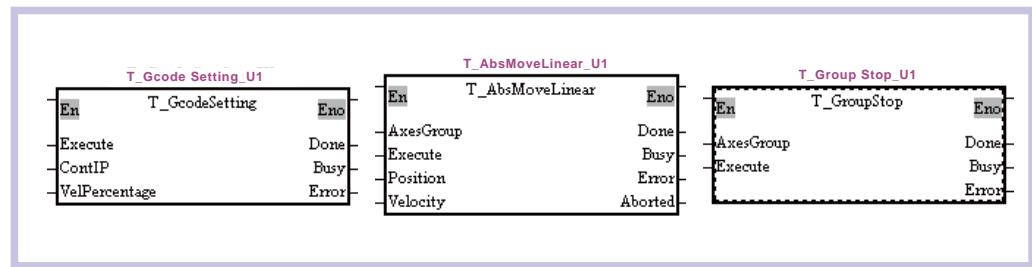


## Single axis motion control



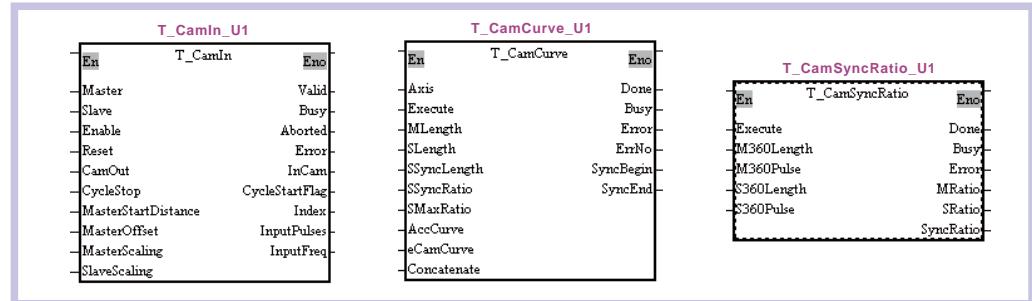
## Multi-axis motion control

- 1 T\_Gcode Setting
- 2 T\_AbsMoveLinear
- 3 T\_Group Stop



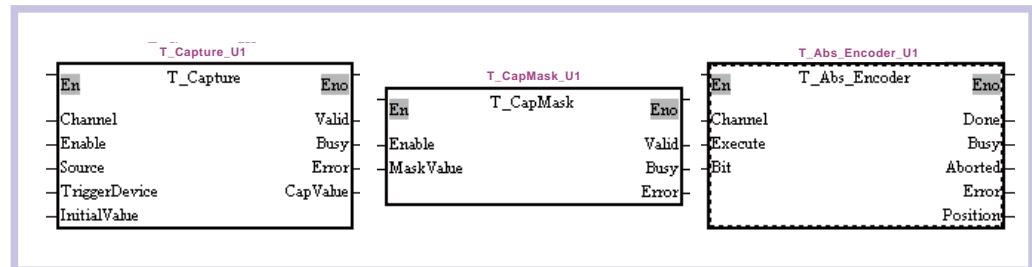
## E-Cam motion control

- 1 T\_Camin
- 2 T\_CamCurve
- 3 T\_CamSyncRatio



## Other motion control

- 1 T\_Capture
- 2 T\_CapMask
- 3 T\_Abs\_Encoder

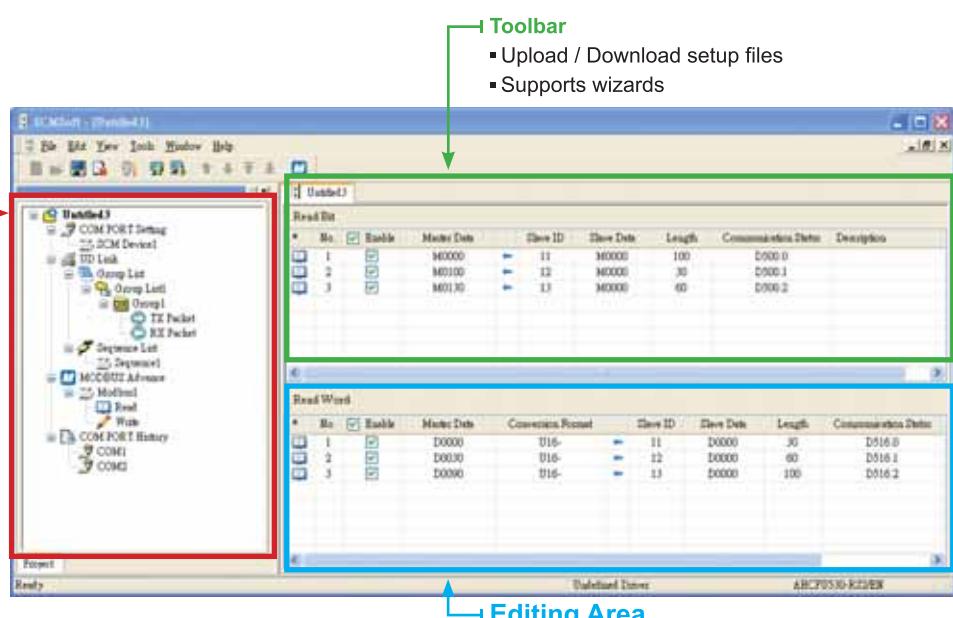


# SCMSoft V1.0 Communication Editing Software

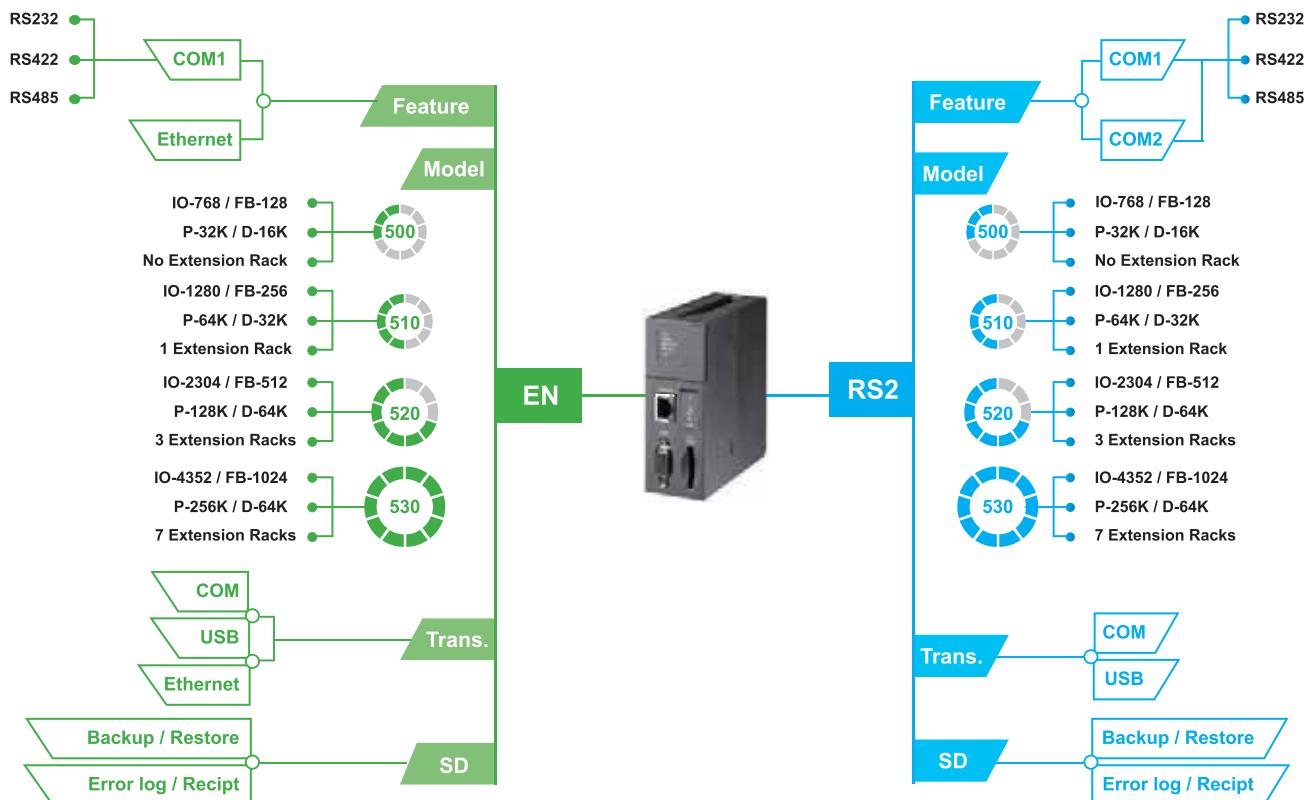
Provides SCM module with automatic data exchange setup function

### Project Management Interface

- Supports user defined protocol (UD Link)
- Supports MODBUS protocol
- Supports data monitoring for communication ports



# Specification Tree



# CPU Selection Table

Item	Specifications	Check	CPU Model							
			AH500-RS2	AH510-RS2	AH520-RS2	AH530-RS2	AH500-EN	AH510-EN	AH520-EN	AH530-EN
Local I/O points	< 768	<input type="checkbox"/>	•				•			
	< 1280	<input type="checkbox"/>		•				•		
	< 2304	<input type="checkbox"/>			•				•	
	< 4352	<input type="checkbox"/>				•				•
Program capacity	< 32k steps	<input type="checkbox"/>	•				•			
	< 64k steps	<input type="checkbox"/>		•				•		
	< 128k steps	<input type="checkbox"/>			•				•	
	< 256k steps	<input type="checkbox"/>				•				•
Expansion capacity	None	<input type="checkbox"/>	•				•			
	< 1 expansion rack	<input type="checkbox"/>		•				•		
	< 3 expansion racks	<input type="checkbox"/>			•				•	
	< 7 expansion racks	<input type="checkbox"/>				•				•
Built-in communication	1 COM port	<input type="checkbox"/>					•	•	•	•
	2 COM ports	<input type="checkbox"/>	•	•	•	•	•			
	Ethernet	<input type="checkbox"/>					•	•	•	•
	Mini-USB	<input type="checkbox"/>	•	•	•	•	•	•	•	•
SD card	V 1.0	<input type="checkbox"/>	•	•	•	•	•	•	•	•

# Model Name Explanation

## AH CPU

### AHCPU500-RS2

AH	CPU	5	0	0	-	RS2
Series	Classification	Model	Function	Version	Type	
	CPU		0: No expansion rack 1: 1 expansion rack 2: 3 expansion racks 3: 7 expansion racks		RS2: 2 COM ports EN: 1 COM & 1 Ethernet ports	

## AH Power Supply Module

### AHPS05-5A

AH	PS	05	-	5A
Series	Classification	Function		Type
	Power supply	05: AC input (100~240V) 15: DC input (24V)		

## AH Backplane

### AHBP04M1-5A

AH	BP	04	M1	-	5A
Series	Classification	Function	Function		Type
	Backplane	04: 4-slot 06: 6-slot 08: 8-slot 12: 12-slot	M1: Main backplane E1: Expansion backplane		

## AH Analog I/O Module

### AH04AD-5A

AH	04	AD	-	5A
Series	I/O Channels	Classification		Type
	04: 4-channel 06: 6-channel 08: 8-channel	AD: Analog input DA: Analog output AX: Analog input / output		5A: Voltage / Current 5B: Voltage 5C: Current

## AH Digital I/O Module

### AH16AM10N-5A

AH	16	AM	1	0	N	-	5A
Series	I/O points	Classification	Function	Function	Function		Type
	16: 16 points 32: 32 points 64: 64 points	AM: Digital input AN: Digital output AP: Digital input / output AR: Digital input with interrupt	0: No input 1: DC input (24V) 3: AC input (120~240V)	0: No output 1: 0.5A transistor / TRIAC output or 2A relay output 2: 0.1A transistor output	N: No output R: Relay output T: NPN output P: PNP output S: TRIAC output		5A: Removable terminal 5B: DB37 connector 5C: Latched connector

## AH Temperature Module

### AH04PT-5A

AH	04	PT	-	5A
Series	I/O channels	Classification		Type
	04: 4-channel 08: 8-channel	PT: Platinum resistance thermometer TC: Thermocouple PTG: Platinum resistance thermometer (channel isolation)		

## AH Network Module

### AH10EN-5A

AH	10	EN	-	5A
Series	Function	Classification		Type
		EN: Ethernet SCM: Serial communication DNET: DeviceNet	PFBM: PROFIBUS master PFBS: PROFIBUS slave COPM: CANopen	

## AH RTU Module

### AHRTU-DNET-5A

AH	RTU	-	DNET	-	5A
Series	Classification		Function		Type
	Remote terminal unit		DNET: DeviceNet PFBS: PROFIBUS		

## AH Motion Module

### AH02HC-5A

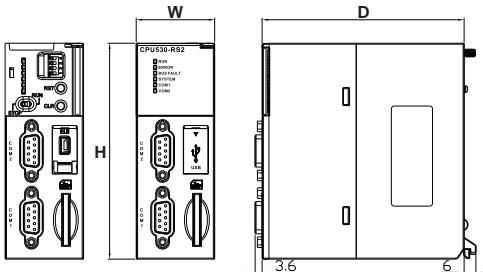
AH	02	HC	-	5A
Series	Function	Classification		Type
	02: 2-channel 04: 4-channel 05: Simple type (PM) 10: Standard type (PM) 15: Advance type (PM) 20: DMCNET	HC: High speed counter PM: Motion controller (Pulse train) MC: Motion controller (Network)		

## Dimensions

Unit: mm

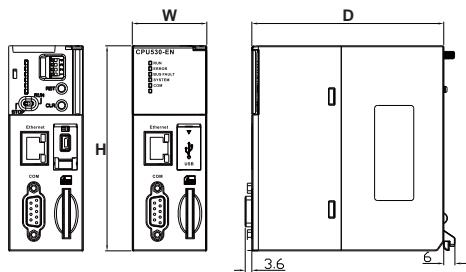
### CPU Modules

Model name	H	W	D
AHCPU500-RS2	110	40	103
AHCPU510-RS2	110	40	103
AHCPU520-RS2	110	40	103
AHCPU530-RS2	110	40	103



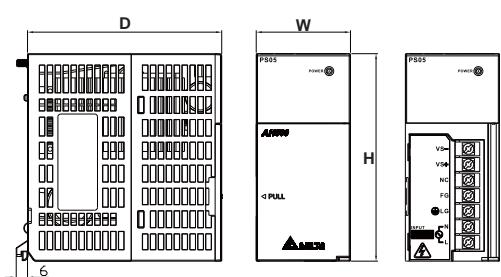
### CPU Modules

Model name	H	W	D
AHCPU500-EN	110	40	103
AHCPU510-EN	110	40	103
AHCPU520-EN	110	40	103
AHCPU530-EN	110	40	103



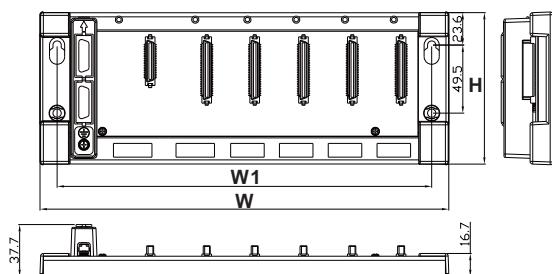
### Power Supply Modules

Model name	H	W	D
AHPS05-5A	110	50	103
AHPS15-5A	110	50	103



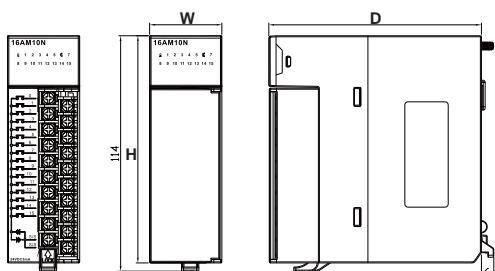
### Backplanes

Model name	H	W	W1
AHBP04M1-5A	110	298	272.5
AHBP06M1-5A	110	369	343.5
AHBP08M1-5A	110	440	414.5
AHBP12M1-5A	110	582	556.5
AHBP06E1-5A	110	328	303
AHBP08E1-5A	110	399	374



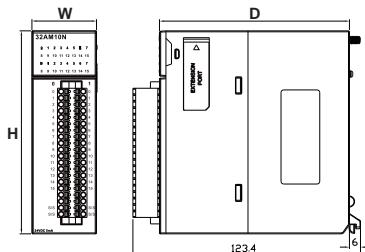
### 16-point Digital I/O Modules

Model name	H	W	D
AH16AM10N-5A	110	35	103
AH16AM30N-5A	110	35	103
AH16AN01R-5A	110	35	103
AH16AN01T-5A	110	35	103
AH16AN01P-5A	110	35	103
AH16AN01S-5A	110	35	103
AH16AP11R-5A	110	35	103
AH16AP11T-5A	110	35	103
AH16AP11P-5A	110	35	103
AH16AR10N-5A	110	35	103



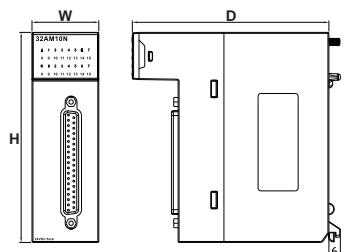
### 32-point Digital I/O Modules

Model name	H	W	D
AH32AM10N-5A	110	35	103
AH32AN02T-5A	110	35	103
AH32AN02P-5A	110	35	103



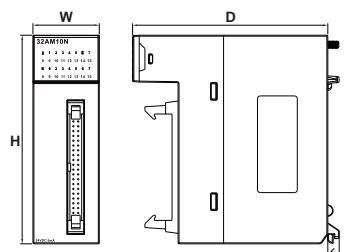
### 32-point Digital I/O Modules

Model name	H	W	D
AH32AM10N-5B	110	35	103
AH32AN02T-5B	110	35	103
AH32AN02P-5B	110	35	103



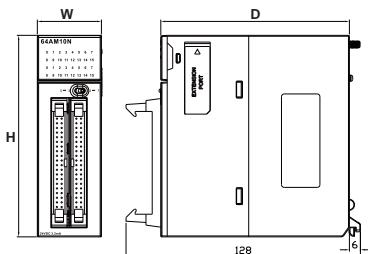
### 32-point Digital I/O Modules

Model name	H	W	D
AH32AM10N-5C	110	35	103
AH32AN02T-5C	110	35	103
AH32AN02P-5C	110	35	103



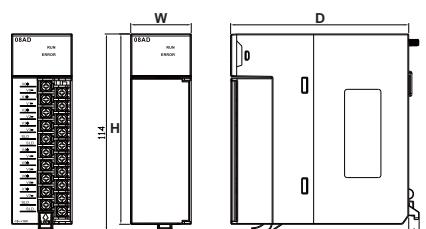
### 64-point Digital I/O Modules

Model name	H	W	D
AH64AM10N-5C	110	35	103
AH64AN02T-5C	110	35	103
AH64AN02P-5C	110	35	103



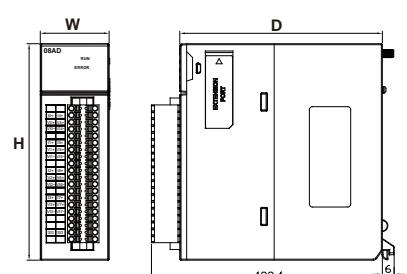
### Analog I/O Modules

Model name	H	W	D
AH04AD-5A	110	35	103
AH08AD-5B	110	35	103
AH08AD-5C	110	35	103
AH04DA-5A	110	35	103
AH08DA-5B	110	35	103
AH08DA-5C	110	35	103
AH06XA-5A	110	35	103



### Analog I/O Modules

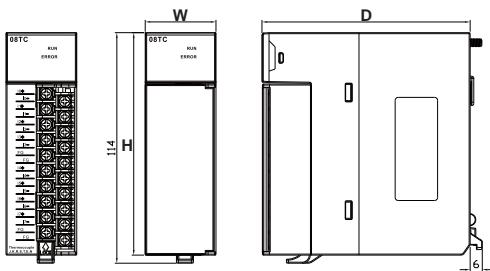
Model name	H	W	D
AH08AD-5A	110	35	103
AH08DA-5A	110	35	103



## Dimensions Unit: mm

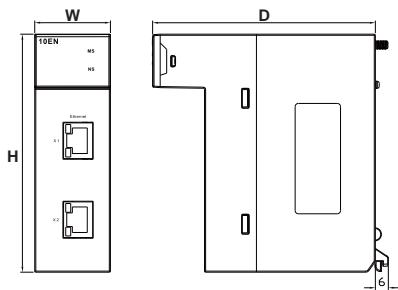
### Temperature Measurement Modules

Model name	H	W	D
AH04PT-5A	110	35	103
AH04TC-5A	110	35	103
AH08TC-5A	110	35	103



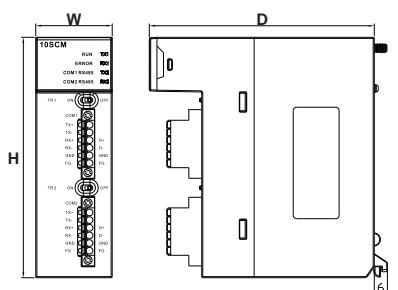
### Network Module

Model name	H	W	D
AH10EN-5A	110	35	103



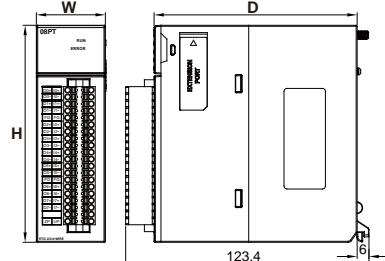
### Network Module

Model name	H	W	D
AH10SCM-5A	110	35	103



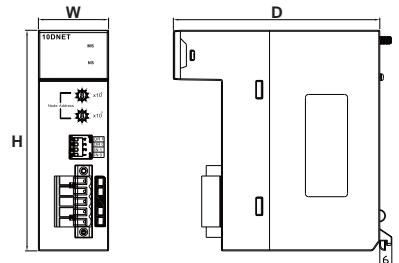
### Temperature Measurement Module

Model name	H	W	D
AH08PTG-5A	110	35	103



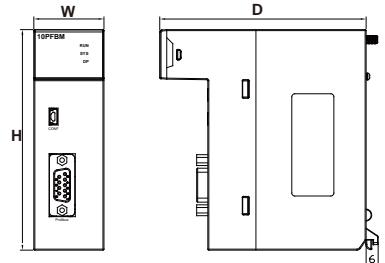
### Network Module

Model name	H	W	D
AH10DNET-5A	110	35	103



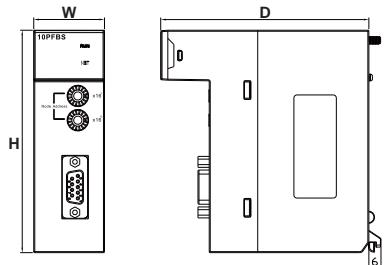
### Network Module

Model name	H	W	D
AH10PFBM-5A	110	35	103



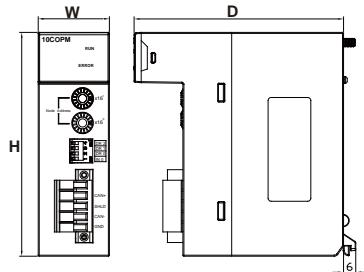
### Network Module

Model name	H	W	D
AH10PFBS-5A	110	35	103



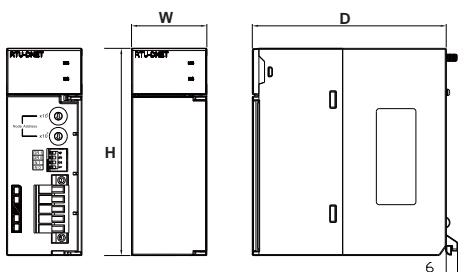
## Network Module

Model name	H	W	D
AH10COPM-5A	110	35	103



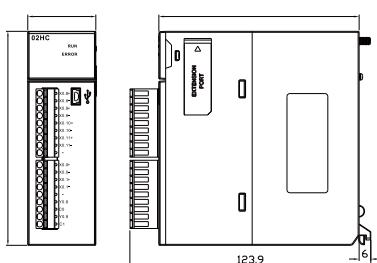
## RTU Module

Model name	H	W	D
AHRTU-DNET-5A	110	40	103



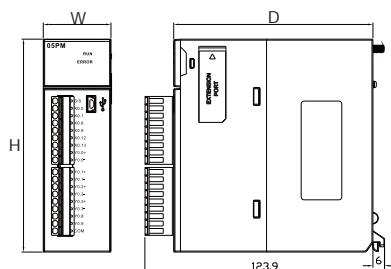
## Motion Control Module

Model name	H	W	D
AH02HC-5A	110	35	103



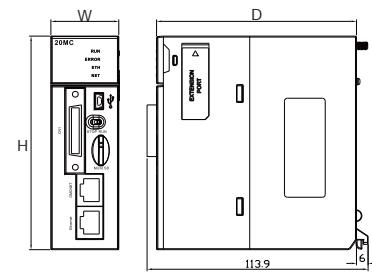
## Motion Control Module

Model name	H	W	D
AH05PM-5A	110	35	103



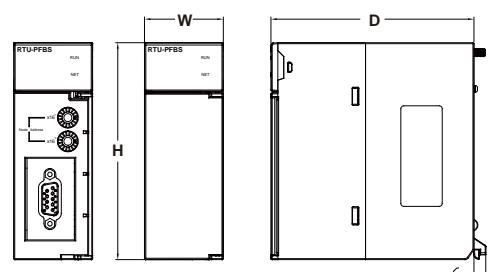
## Motion Control Module

Model name	H	W	D
AH20MC-5A	110	35	103



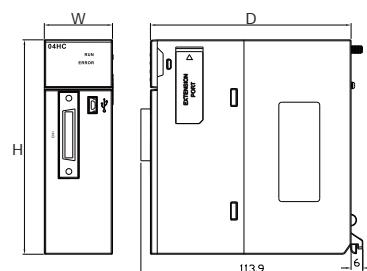
## RTU Module

Model name	H	W	D
AHRTU-PFBS-5A	110	40	103



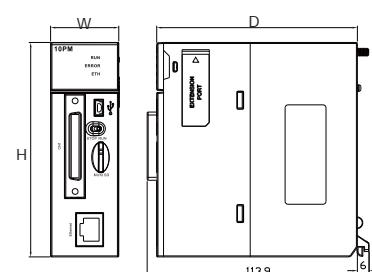
## Motion Control Module

Model name	H	W	D
AH04HC-5A	110	35	103



## Motion Control Modules

Model name	H	W	D
AH10PM-5A	110	35	103
AH15PM-5A	110	35	103

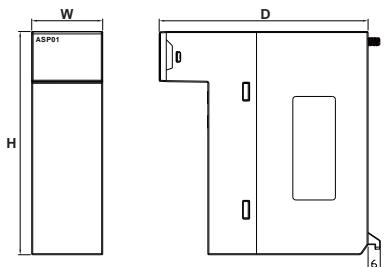


# Dimensions

Unit: mm

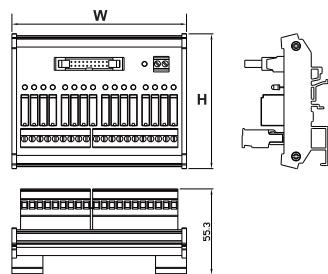
## Dummy Module

Model name	H	W	D
AHASP01-5A	110	35	103



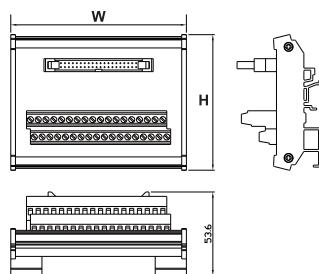
## External Terminal Modules

Model name	H	W
DVPAETB-OR16A	87	113
DVPAETB-OR16B	87	113



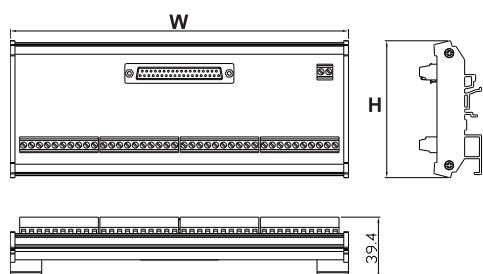
## External Terminal Modules

Model name	H	W
DVPAETB-ID32A	87	113
DVPAETB-OT32A	87	113



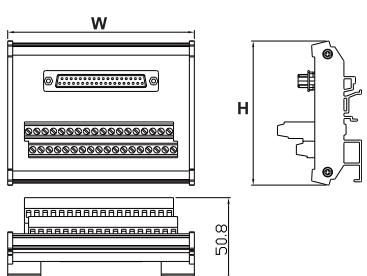
## External Terminal Modules

Model name	H	W
DVPAETB-OR32A	87	215
DVPAETB-OR32B	87	215



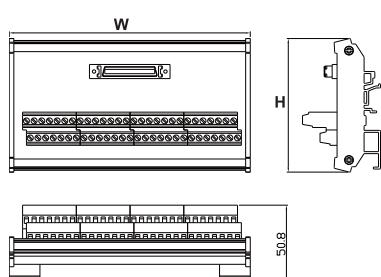
## External Terminal Modules

Model name	H	W
DVPAETB-ID32B	87	113
DVPAETB-OT32B	87	113



## External Terminal Modules

Model name	H	W
DVPAETB-IO16C	87	125
DVPAETB-IO24C	87	157
DVPAETB-IO34C	87	157

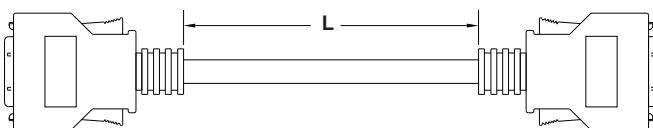


# Dimensions

Unit: m

## Cables (HDC)

Model name	L	Model name	L
AHACAB06-5A	0.6	AHACABD0-5A	40.0
AHACAB10-5A	1.0	AHACABE0-5A	50.0
AHACAB15-5A	1.5	AHACABF0-5A	60.0
AHACAB30-5A	3.0	AHACABG0-5A	70.0
AHACAB50-5A	5.0	AHACABH0-5A	80.0
AHACABA0-5A	10.0	AHACABI0-5A	90.0
AHACABA5-5A	15.0	AHACABJ0-5A	100.0
AHACABB0-5A	20.0	DVPACAB7D10	1.0
AHACABC0-5A	30.0	DVPACAB7E10	1.0



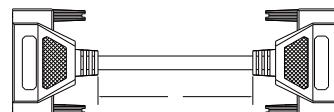
## Cables (RJ45)

Model name	L	Model name	L
TAP-CB03	0.3	TAP-CB20	2.0
TAP-CB05	0.5	TAP-CB30	3.0
TAP-CB10	1.0	TAP-CB100	10.0



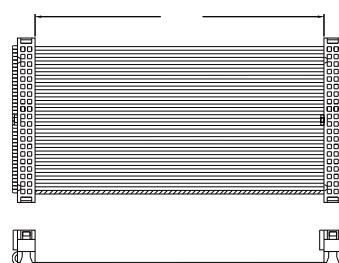
## Cable (DB37)

Model name	L
DVPACAB7C10	1.0



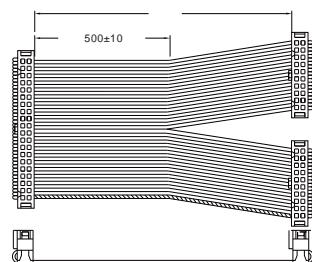
## Cable (Latched connector)

Model name	L
DVPACAB7A10	1.0



## Cable (Latched connector)

Model name	L
DVPACAB7B10	1.0

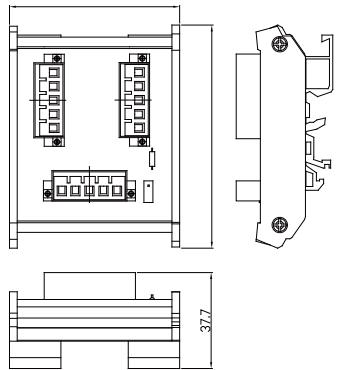


## Dimensions

Unit: mm

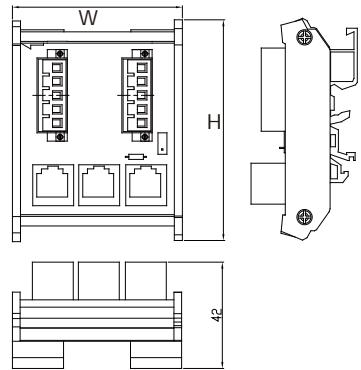
### CANopen Distribution Box

Model name	H	W
TAP-CN01	87	66.5



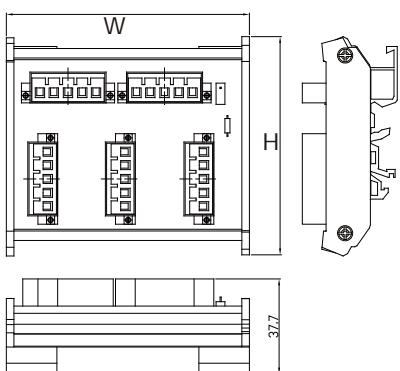
### CANopen Distribution Box

Model name	H	W
TAP-CN03	87	66.5



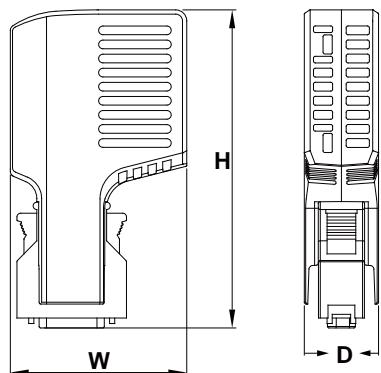
### CANopen Distribution Box

Model name	H	W
TAP-CN02	87	96.5

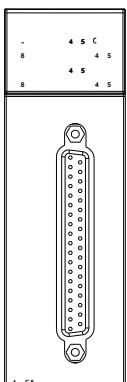
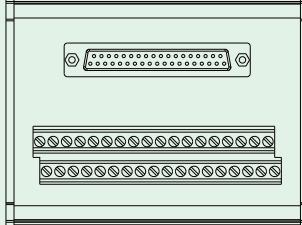
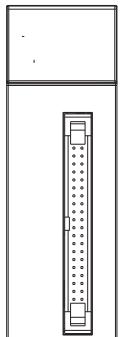
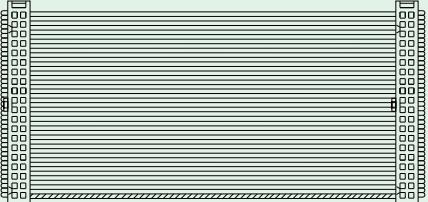
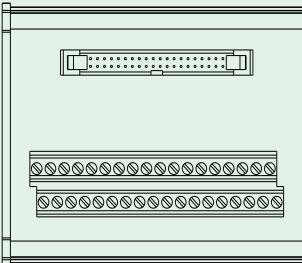
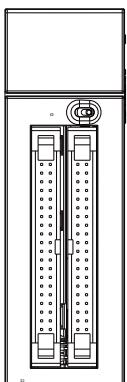
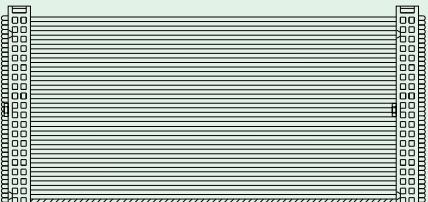
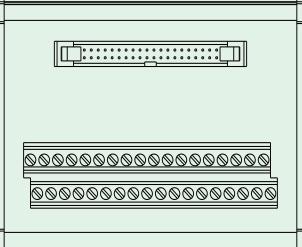


### Fiber Optics Modules for Backplanes

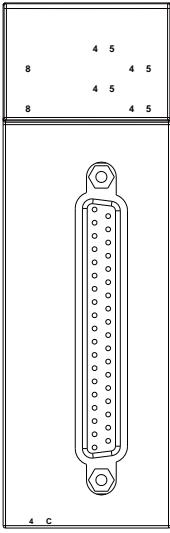
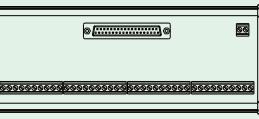
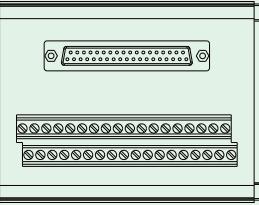
Model name	H	W	D
AHAADP01EF-5A	86.5	48	20.2
AHAADP02EF-5A	86.5	48	20.2

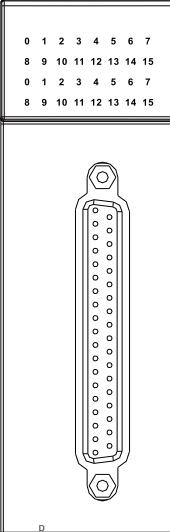
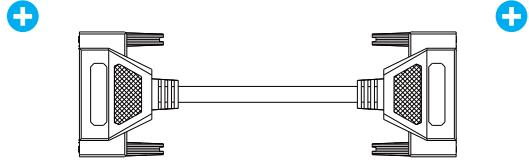
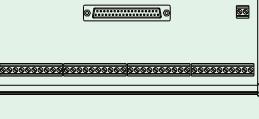
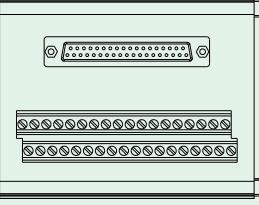


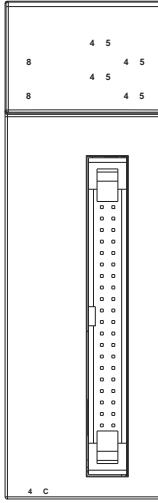
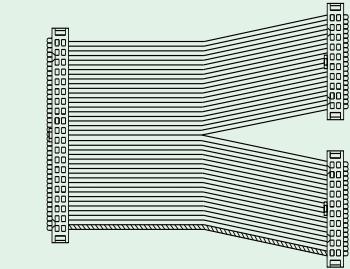
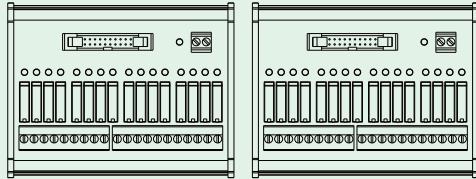
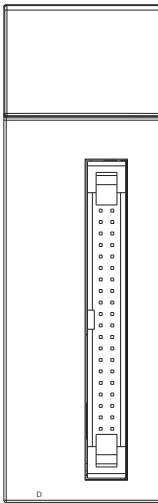
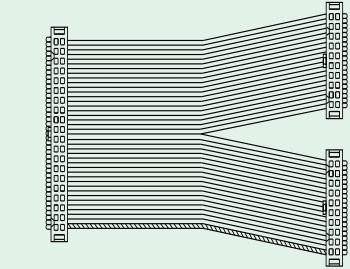
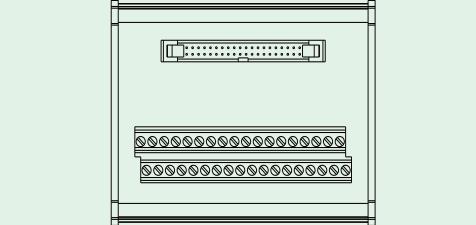
## Accessory Selection for High-density Modules

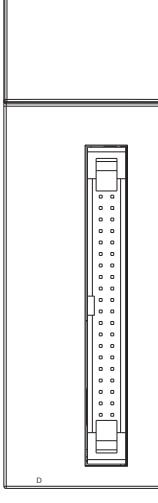
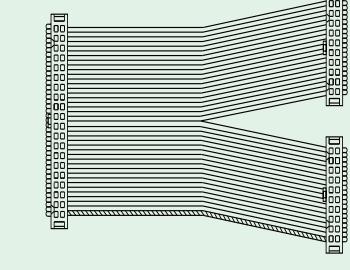
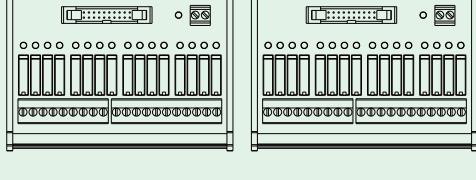
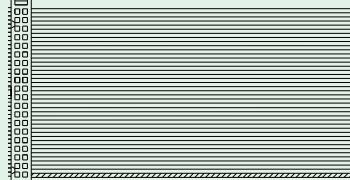
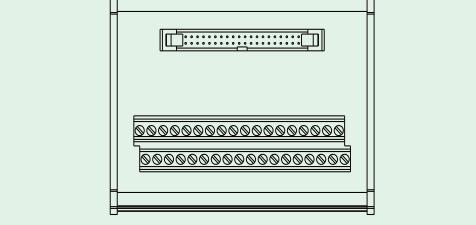
Model name		
AH32AM10N-5B	DVPACAB7C10	DVPAETB-ID32B
		
AH32AM10N-5C	DVPACAB7A10	DVPAETB-ID32A
		
AH64AM10N-5C	DVPACAB7A10	DVPAETB-ID32A x2
		

# Accessory Selection for High-density Modules

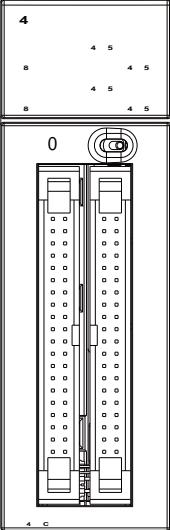
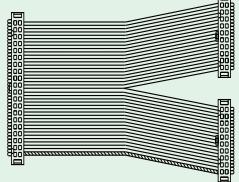
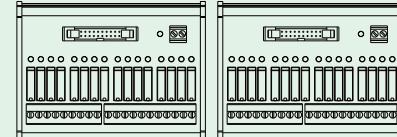
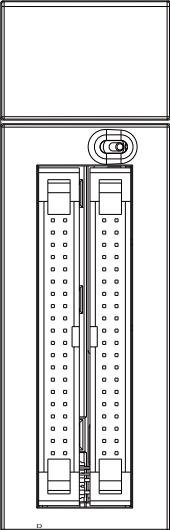
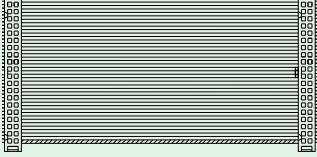
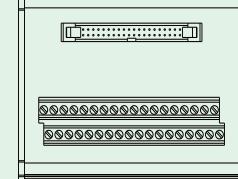
Model name		
AH32AN02T-5B	DVPACAB7C10	1 DVPAETB-OR32A (for relay output)
		 OR 2 DVPAETB-OT32B (for transistor output) 

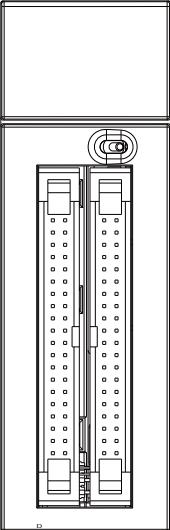
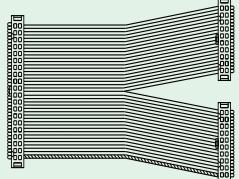
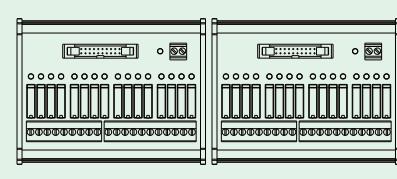
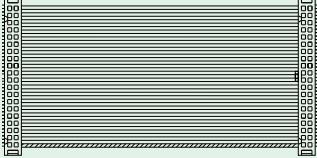
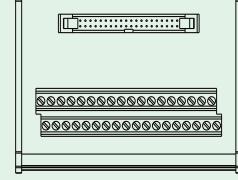
Model name		
AH32AN02P-5B	DVPACAB7C10	1 DVPAETB-OR32B (for relay output)
		 OR 2 DVPAETB-OT32B (for transistor output) 

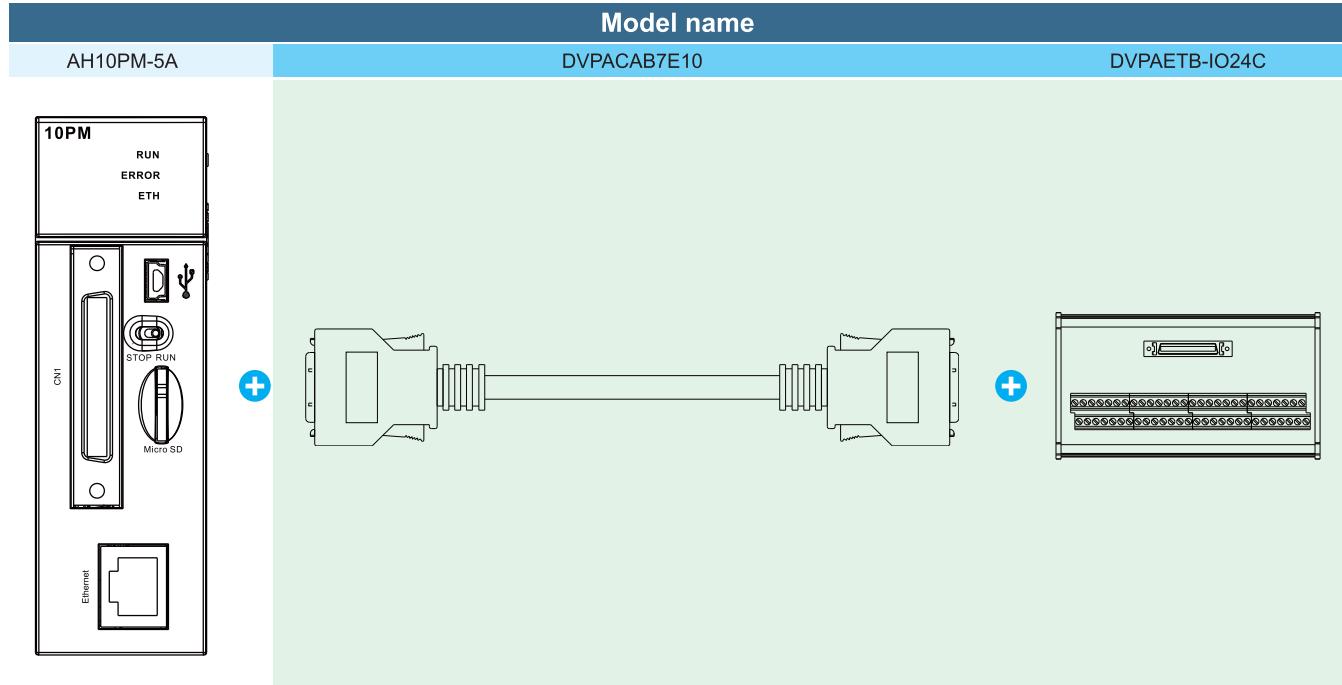
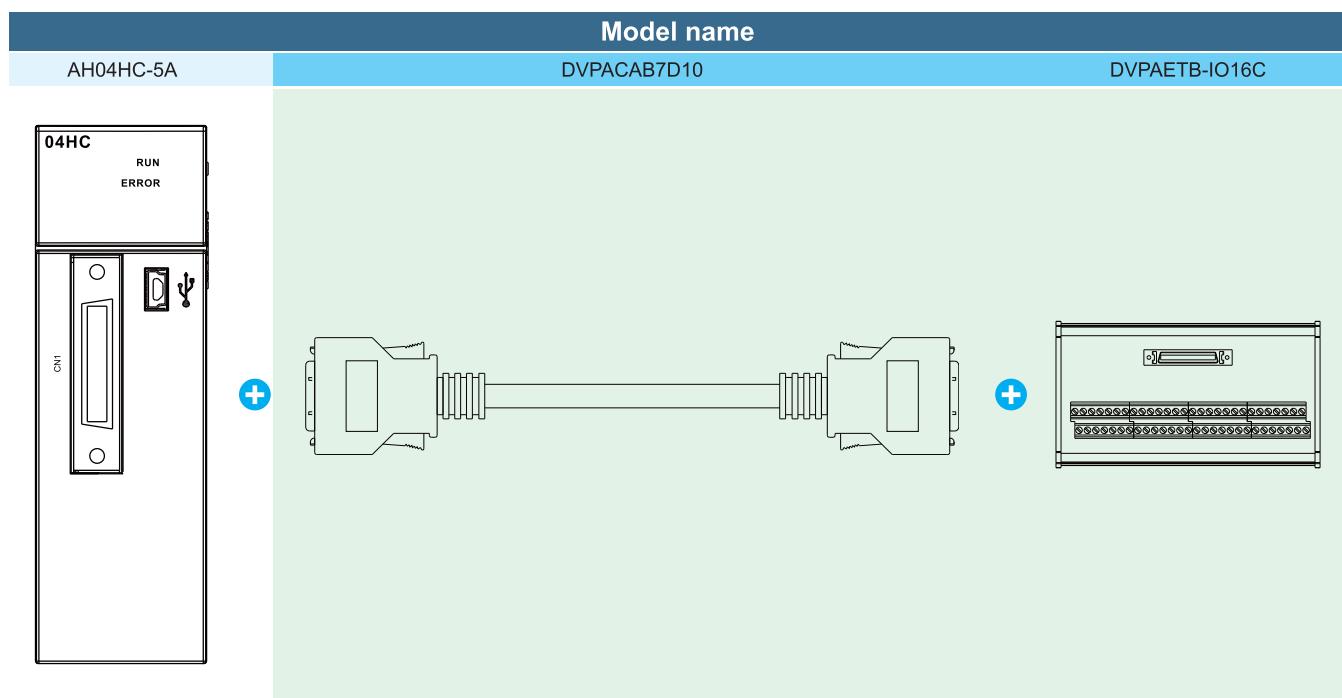
Model name		
AH32AN02T-5C	1 DVPACAB7B10	DVPAETB-OR16A (for relay output)
		
+ 2 DVPACAB7A10	OR	DVPAETB-OT32A (for transistor output)
		

Model name		
AH32AN02P-5C	1 DVPACAB7B10	DVPAETB-OR16B (for relay output)
		
+ 2 DVPACAB7A10	OR	DVPAETB-OT32A (for transistor output)
		

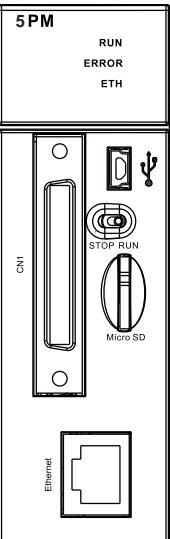
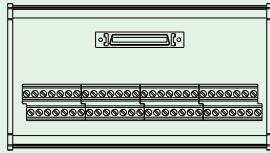
## Accessory Selection for High-density Modules

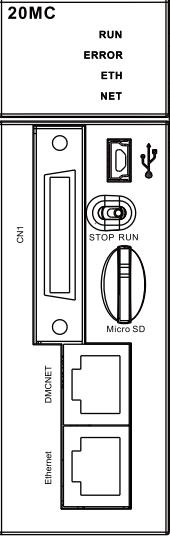
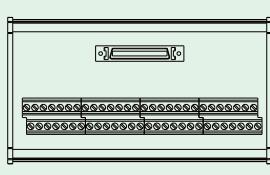
Model name			
AH64AN02T-5C	1	DVPACAB7B10	DVPAETB-OR16A (for relay output)
			x2
	2	DVPACAB7A10	DVPAETB-OT32A (for transistor output)
			x2

Model name			
H64AN02P-5C	1	DVPACAB7B10	DVPAETB-OR16B (for relay output)
			x2
	2	DVPACAB7A10	DVPAETB-OT32A (for transistor output)
			x2



## Accessory Selection for High-density Modules

Model name		
AH15PM-5A	DVPACAB7E10	DVPAETB-IO34C
  	+ +	

Model name		
AH20MC-5A	DVPACAB7D10	DVPAETB-IO16C
  	+ +	

# Ordering Information

## CPU Modules

Model	Local I/O points	Program capacity	Data register D / L / B (note)	Function blocks	Extension backplane	Power consumption (Internal)	Specifications	Certificates
AHCPU500-RS2	768	32K steps (128KB)	16K / 16K / 512K words	128	0	2w	<ul style="list-style-type: none"> <li>▪ Built-in RS-232 / 422 / 485 multi-modes communication port x 2 (RS-232:115.2kbps / RS-422 / 485: 921.6kbps)</li> <li>▪ Built-in SD card slot (supports max. 2 GB)</li> <li>▪ Built-in Mini-USB programming port</li> <li>▪ Program execution speed: LD instruction @ 0.1µs / 1K steps @ 0.3ms</li> <li>▪ System diagnose / status light / online editing and debug functions</li> <li>▪ PLC Link automatic data exchange function</li> <li>▪ MODBUS RTU / ASCII</li> <li>▪ LD / SFC / FBD / IL / ST languages</li> <li>▪ 256 interrupts (Timed / IO / External / Low voltage / Communication)</li> <li>▪ 2048 timers and counters</li> <li>▪ No battery required</li> <li>▪ RTC function (max. 30 days after power off)</li> </ul>	 
AHCPU510-RS2	1280	64K steps (256KB)	32K / 32K / 1024K words	256	1	2w		
AHCPU520-RS2	2304	128K steps (512KB)	64K / 64K / 2048K words	512	3	2w		
AHCPU530-RS2	4352	256K steps (1MB)	64K / 64K / 4096K words	1024	7	2w		
AHCPU500-EN	768	32K steps (128KB)	16K / 16K / 512K words	128	0	2w		
AHCPU510-EN	1280	64K steps (256KB)	32K / 32K / 1024K words	256	1	2w		
AHCPU520-EN	2304	128K steps (512KB)	64K / 64K / 2048K words	512	3	2w		
AHCPU530-EN	4352	256K steps (1MB)	64K / 64K / 4096K words	1024	7	2w		

Note: Data Register B is for the use of function blocks

## Main Backplanes

Model	Slot	Power consumption (Internal)	Specifications	Certificates
AHBP04M1-5A	4	0.01w		
AHBP06M1-5A	6	0.01w		
AHBP08M1-5A	8	0.01w		
AHBP12M1-5A	12	0.01w	<ul style="list-style-type: none"> <li>▪ Supports CPU modules</li> <li>▪ Supports remote IO communication modules (RTU)</li> <li>▪ Built-in communication port for extension backplanes</li> <li>▪ Slot spaces are not occupied by Power / CPU / RTU modules</li> </ul>	 

## Extension Backplanes

Model	Slot	Power consumption (Internal)	Specifications	Certificates
AHBP06E1-5A	6	1.41w		
AHBP08E1-5A	8	1.41w	<ul style="list-style-type: none"> <li>▪ For main backplane extension</li> <li>▪ Built-in communication port for extension backplanes</li> <li>▪ Slot spaces are not occupied by power modules</li> </ul>	 

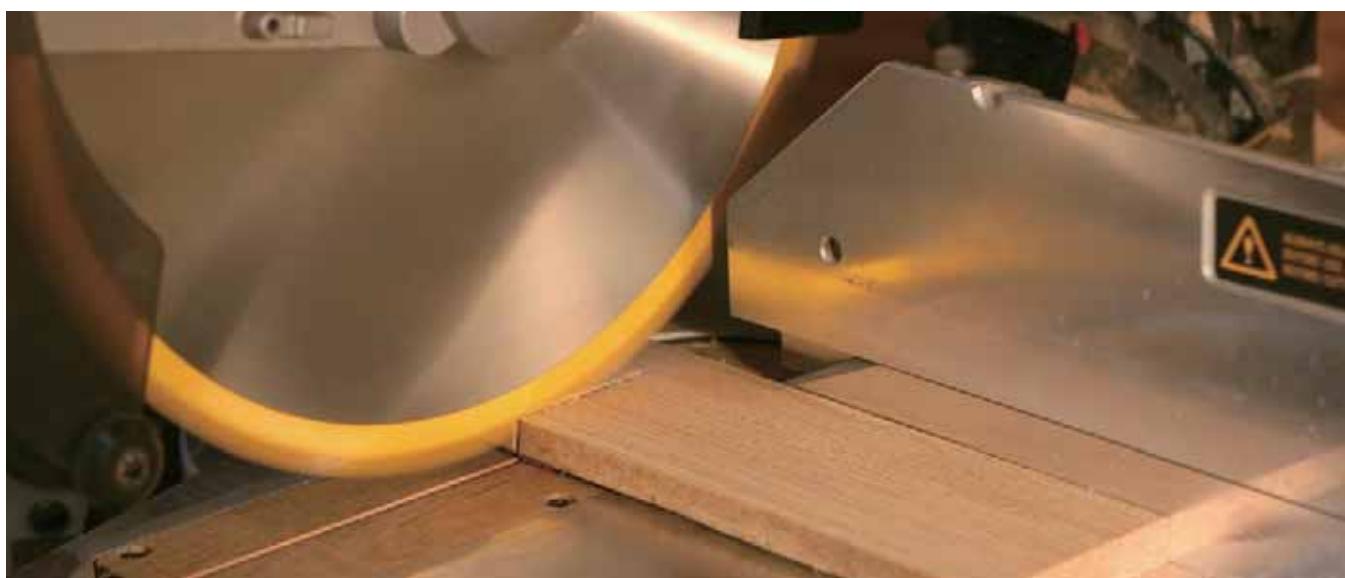
# Ordering Information

## Power Supply Modules

Model	Power input	Output	Specifications	Certificates
AHPS05-5A	100~240VAC 50 / 60Hz	60W	<ul style="list-style-type: none"> <li>▪ Power supply for the modules on the racks</li> <li>▪ LED power indicator</li> <li>▪ Provides external DC power abnormal signal detection input and triggered interrupt function</li> </ul>	 
AHPS15-5A	24VDC	36W		

## Digital I/O Modules (Input)

Model	Points	Signals	Terminal block type	Power consumption (Internal / External)	Accessories (optional)	Specifications	Certificates
AH16AM10N-5A	16	24VDC 5mA	JIS removable terminal block	0.1w / 1.9w	-	<ul style="list-style-type: none"> <li>▪ PNP / NPN mixed mode design</li> <li>▪ Supports hot-swapping function</li> <li>▪ Individual LED status indicator</li> </ul>	 
AH16AM30N-5A	16	120~240VAC 4.5~9mA	JIS removable terminal block	0.1w / -	-		
AH32AM10N-5A	32	24VDC 5mA	EU removable terminal block	0.2w / 3.8w	-		
AH32AM10N-5B	32	24VDC 5mA	DB37	0.2w / 3.8w	DVPACAB7C10 x 1 DVPAETB-ID32B x 1		
AH32AM10N-5C	32	24VDC 5mA	Latched connector	0.2w / 3.8w	DVPACAB7A10 x 1 DVPAETB-ID32A x 1		
AH64AM10N-5C	64	24VDC 3.2mA	Latched connector	0.2w / 4.9w	DVPACAB7A10 x 2 DVPAETB-ID32A x 2	<ul style="list-style-type: none"> <li>▪ PNP / NPN mixed mode design</li> <li>▪ Supports hot-swapping function</li> <li>▪ Individual LED status indicator (32 points)</li> </ul>	
<b>New</b> AH16AR10N-5A	16	24VDC 5mA	JIS removable terminal block	0.5w / 1.9w	-	<ul style="list-style-type: none"> <li>▪ PNP / NPN mixed mode design</li> <li>▪ Supports hot-swapping function</li> <li>▪ Individual LED status indicator</li> <li>▪ Supports I/O interrupts</li> <li>▪ Supports rising / falling-edge trigger modes</li> <li>▪ Supports signal time-delay setting for 0.1 / 0.5 / 3 / 15 / 20 ms</li> </ul>	



## Digital I/O Modules (Output)

Model	Points	Signals	Terminal block type	Power consumption (Internal / External)	Accessories (optional)	Specifications	Certificates
AH16AN01R-5A	16	Relay 240VAC / 24VDC 2A	JIS removable terminal block	2.1w / -	-	<ul style="list-style-type: none"> <li>▪ Supports hot-swapping function</li> <li>▪ Individual LED status indicator</li> <li>▪ Supports keep-last-value function when CPU shuts down</li> </ul>	 
AH16AN01T-5A	16	NPN (Sink) 12~24VDC 0.5A	JIS removable terminal block	0.2w / 0.4w	-		
AH16AN01P-5A	16	PNP (Source) 12~24VDC 0.5A	JIS removable terminal block	0.2w / 0.4w	-		
AH16AN01S-5A	16	TRIAC 120 / 240VAC 0.5A	JIS removable terminal block	0.6w / -	-		
AH32AN02T-5A	32	NPN (Sink) 12~24VDC 0.1A	EU removable terminal block	0.4w / 0.8w	-		
AH32AN02P-5A	32	PNP (Source) 12~24VDC 0.1A	EU removable terminal block	0.4w / 0.8w	-		
AH32AN02T-5B	32	NPN (Sink) 12~24VDC 0.1A	DB37	0.4w / 0.8w	(DVpacab7C10 x 1 DVpaetb-OR32A x 1) or (DVpacab7C10 x 1 DVpaetb-OT32B x 1)		
AH32AN02P-5B	32	PNP (Source) 12~24VDC 0.1A	DB37	0.4w / 0.8w	(DVpacab7C10 x 1 DVpaetb-OR32B x 1) or (DVpacab7C10 x 1 DVpaetb-OT32B x 1)		
AH32AN02T-5C	32	NPN (Sink) 12~24VDC 0.1A	Latched connector	0.4w / 0.8w	(DVpacab7B10 x 1 DVpaetb-OR16A x 2) or (DVpacab7A10 x 1 DVpaetb-OT32A x 1)		
AH32AN02P-5C	32	PNP (Source) 12~24VDC 0.1A	Latched connector	0.4w / 0.8w	(DVpacab7B10 x 1 DVpaetb-OR16B x 2) or (DVpacab7A10 x 1 DVpaetb-OT32A x 1)		
AH64AN02T-5C	64	NPN (Sink) 12~24VDC 0.1A	Latched connector	0.6w / 1.5w	(DVpacab7B10 x 2 DVpaetb-OR16A x 4) or (DVpacab7A10 x 2 DVpaetb-OT32A x 2)	<ul style="list-style-type: none"> <li>▪ Supports hot-swapping function</li> <li>▪ Individual LED status indicator (32 points)</li> <li>▪ Supports keep-last-value function when CPU shuts down</li> </ul>	 
AH64AN02P-5C	64	PNP (Source) 12~24VDC 0.1A	Latched connector	0.6w / 1.5w	(DVpacab7B10 x 2 DVpaetb-OR16B x 4) or (DVpacab7A10 x 2 DVpaetb-OT32A x 2)		

## Digital I/O Modules (Mixed)

Model	Inputs	Outputs	Input signals	Output signals	Terminal block type	Power consumption (Internal / External)	Specifications	Certificates
AH16AP11R-5A	8	8	24VDC 5mA	Relay 240VAC / 24VDC 2A	JIS removable terminal block	1.1w / -	<ul style="list-style-type: none"> <li>▪ PNP / NPN mixed mode design</li> <li>▪ Supports hot-swapping function</li> <li>▪ Individual LED status indicator</li> <li>▪ Supports keep-last-value function when CPU shuts down</li> </ul>	 
AH16AP11T-5A	8	8	24VDC 5mA	NPN (Sink) 12~24VDC 0.5A	JIS removable terminal block	0.2w / 0.2w		
AH16AP11P-5A	8	8	24VDC 5mA	PNP (Source) 12~24VDC 0.5A	JIS removable terminal block	0.2w / 0.2w		

# Ordering Information

## Analog I/O Modules (Input)

Model	Channels	Signals	Terminal block type	Power consumption (Internal / External)	Specifications	Certificates
AH04AD-5A	4	0 / 1V~5V, ±5V, 0V~10V, ±10V 0 / 4mA~20mA ±20mA	JIS removable terminal block	0.35w / 1w	<ul style="list-style-type: none"> <li>▪ Hardware resolution: 16-bit</li> <li>▪ Conversion time: 150 µs / channel</li> <li>▪ Base error (ambient temp.): Voltage mode ±0.1% Current mode ±0.1%</li> <li>▪ Base error (full temp. range): Voltage mode ±0.45% Current mode ±0.2%</li> <li>▪ Linearity error (ambient temp.): Voltage mode ±0.07% Current mode ±0.05%</li> <li>▪ Linearity error (full temp. range): Voltage mode ±0.12% Current mode ±0.23%</li> <li>▪ Supports hot-swapping function</li> <li>▪ Isolated signal design</li> <li>▪ Diagnose function</li> <li>▪ Module status LED indicator</li> <li>▪ Supports interrupt function</li> </ul>	 
<b>New</b> AH08AD-5A	8	0 / 1V~5V, ±5V, 0V~10V, ±10V 0 / 4mA~20mA, ±20mA	EU removable terminal block	1.5w / -	<ul style="list-style-type: none"> <li>▪ Hardware resolution: 16-bit</li> <li>▪ Conversion time: 150 µs / channel</li> <li>▪ Base error (ambient temp.): Voltage mode ±0.1% Current mode ±0.1%</li> <li>▪ Base error (full temp. range): Voltage mode ±0.45% Current mode ±0.2%</li> <li>▪ Linearity error (ambient temp.): Voltage mode ±0.07% Current mode ±0.05%</li> <li>▪ Linearity error (full temp. range): Voltage mode ±0.12% Current mode ±0.23%</li> <li>▪ Supports hot-swapping function</li> <li>▪ Isolated signal design</li> <li>▪ Diagnose function</li> <li>▪ Module status LED indicator</li> <li>▪ Supports interrupt function</li> </ul>	
AH08AD-5B	8	0 / 1V~5V, ±5V, 0V~10V, ±10V	JIS removable terminal block	1.9w / -		
AH08AD-5C	8	0 / 4mA~20mA, ±20mA	JIS removable terminal block	1.6w / -		

## Analog I/O Modules (Output)

Model	Channels	Signals	Terminal block type	Power consumption (Internal / External)	Specifications	Certificates
AH04DA-5A	4	0 / 1V~5V, ±5V, 0V~10V, ±10V 0 / 4mA~20mA	JIS removable terminal block	0.34w / 2.6w	<ul style="list-style-type: none"> <li>▪ Hardware resolution: 16-bit</li> <li>▪ Conversion time: 150 µs / channel</li> <li>▪ Base error (ambient temp.): Voltage mode ±0.02% Current mode ±0.06%</li> <li>▪ Base error (full temp. range): Voltage mode ±0.04% Current mode ±0.07%</li> <li>▪ Linearity error (ambient temp.): Voltage mode ±0.004% Current mode ±0.01%</li> <li>▪ Linearity error (full temp. range): Voltage mode ±0.004% Current mode ±0.01%</li> <li>▪ Supports hot-swapping function</li> <li>▪ Isolated signal design</li> <li>▪ Diagnose function</li> <li>▪ Module status LED indicator</li> <li>▪ Supports interrupt function</li> <li>▪ Supports keep-last-value function when CPU shuts down</li> </ul>	 
<b>New</b> AH08DA-5A	8	0 / 1V~5V, ±5V, 0V~10V, ±10V 0 / 4mA~20mA	EU removable terminal block	1w / 5w		
AH08DA-5B	8	0 / 1V~5V, ±5V, 0V~10V, ±10V	JIS removable terminal block	0.25w / 2.2w		
AH08DA-5C	8	0 / 4mA~20mA	JIS removable terminal block	0.25w / 3.7w		

## Analog I/O Modules (Mixed)

Model	Channels	Signals	Terminal block type	Power consumption (Internal / External)	Specifications	Certificates
AH06XA-5A	Inputs: 4 Outputs: 2	<b>Input:</b> 0 / 1V~5V, ±5V, 0V~10V, ±10V 0 / 4mA~20mA, ±20mA  <b>Output:</b> 0 / 1V~5V, ±5V, 0V~10V, ±10V 0 / 4mA~20mA	JIS removable terminal block	0.34w / 1.4w	<ul style="list-style-type: none"> <li>▪ Hardware resolution: 16-bit</li> <li>▪ Conversion time: 150µs / channel</li> <li>▪ Input accuracy: same as AH04AD-5A</li> <li>▪ Output accuracy: same as AH04DA-5A</li> <li>▪ Supports hot-swapping function</li> <li>▪ Isolated signal design</li> <li>▪ Diagnose function</li> <li>▪ Module status LED indicator</li> <li>▪ Supports interrupt function</li> <li>▪ Supports keep-last-value function when CPU shuts down</li> </ul>	 

## Temperature Measurement Modules

Model	Channels	Signals	Resolution	Conversion time	Terminal block type	Power consumption (Internal / External)	Specifications	Certificates
AH04PT-5A	4	(2 / 3 / 4-wire RTD input) PT100, PT1000, Ni100, Ni1000, 0Ω~300Ω	0.1°C / 0.1°F 0.1% (0Ω~300Ω)	2 / 4-wire: 150ms / channel 3-wire: 300ms / channel	JIS removable terminal block	2w / -	<ul style="list-style-type: none"> <li>▪ Effective resolution: 16-bit</li> <li>▪ Accuracy: ±0.6% (Full Scale)</li> <li>▪ Supports hot-swapping function</li> <li>▪ Signal isolated design</li> <li>▪ Diagnose function</li> <li>▪ PID function</li> <li>▪ Module status LED indicator</li> <li>▪ Supports interrupt function</li> <li>▪ Supports disconnection detection function</li> </ul>	 
AH04TC-5A	4	Thermocouple input J,K,R,S,T,E,N, ±150mV	0.1°C / 0.1°F	200ms / channel	JIS removable terminal block	1.5w / -		
AH08TC-5A	8	Thermocouple input J,K,R,S,T,E,N, ±150mV	0.1°C / 0.1°F	200ms / channel	JIS removable terminal block	1.5w / -		
<b>New</b> AH08PTG-5A	8	(2 / 3 / 4-wire RTD input) PT100, PT1000, Ni100, Ni1000, 0Ω~300Ω	0.1°C / 0.1°F 0.1% (0Ω~300Ω)	2 / 4-wire: 20ms (fast)~100ms (normal) / channel 3-wire:200ms / channel	EU removable terminal block	0.7w / 4w	<ul style="list-style-type: none"> <li>▪ Fully isolated channel design (AH08PTG-5A)</li> </ul>	

## Network Modules

Model	Power consumption (Internal / External)	Specifications		Certificates
AH10EN-5A	1.6w / -	<ul style="list-style-type: none"> <li>▪ Ethernet communication module (Master / Slave)</li> <li>▪ 100Mbps communication port x 2 (switch function available)</li> <li>▪ Ether Link function</li> <li>▪ MODBUS TCP function</li> </ul>	<ul style="list-style-type: none"> <li>▪ Automatic data exchange function</li> <li>▪ NTP network time correction function</li> <li>▪ SNMP / E-mail / IP Filter function</li> </ul>	 
AH10SCM-5A	1.2w / -	<ul style="list-style-type: none"> <li>▪ Serial communication module (Master / Slave)</li> <li>▪ Full isolation design in power &amp; signal circuits</li> <li>▪ Built-in RS-422 / 485 with communication port x 2 (multiple modes, 460.8Kbps)</li> <li>▪ Supports PLC Link function</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports user defined communication format (UD Link)</li> <li>▪ MODBUS RTU / ASCII function available</li> <li>▪ Supports automatic data exchange function</li> <li>▪ Supports BACnet Slave function</li> </ul>	
AH10DNET-5A	0.9w / 0.72w	<ul style="list-style-type: none"> <li>▪ DeviceNet communication module (Master / Slave)</li> <li>▪ Supports max. speed of 1Mbps</li> <li>▪ Switchable between master and slave modes</li> </ul>	<ul style="list-style-type: none"> <li>▪ Connecting up to 63 slave stations in master mode</li> <li>▪ RIO capacity in master mode: 490 words IN / OUT</li> </ul>	
<b>New</b> AH10PFBM-5A	2w / -	<ul style="list-style-type: none"> <li>▪ PROFIBUS-DP master module</li> <li>▪ Supports DPV0 / DPV1</li> <li>▪ Max. speed: 12Mbps</li> </ul>	<ul style="list-style-type: none"> <li>▪ Connects up to 124 slaves</li> <li>▪ Configurable I/O capacity: 2880 words for input / 2880 words for output</li> </ul>	
AH10PFBS-5A	1w / -	<ul style="list-style-type: none"> <li>▪ PROFIBUS-DP slave module</li> <li>▪ Supports DPV0 / DPV1</li> <li>▪ Max. speed: 12Mbps</li> </ul>	<ul style="list-style-type: none"> <li>▪ Configurable I/O capacity: 100 words for input / 100 words for output</li> </ul>	
<b>New</b> AH10COPM-5A	1w / -	<ul style="list-style-type: none"> <li>▪ CANopen module (Master / Slave)</li> <li>▪ Max. speed: 1Mbps</li> <li>▪ Connects up to 100 slaves in master mode</li> </ul>		

## Remote I/O Modules

Model	Power consumption (Internal / External)	Specifications		Certificates
AHRTU-DNET-5A	0.75w / 0.72w	<ul style="list-style-type: none"> <li>▪ DeviceNet remote I/O module</li> <li>▪ Supports max. speed of 1Mbps</li> <li>▪ Supports AH500 DIO modules, AIO modules, temperature measurement modules, and the serial communication module AH10SCM</li> </ul>	<ul style="list-style-type: none"> <li>▪ Installing on the main backplane required</li> <li>▪ Supports up to 7 extension racks</li> <li>▪ Diagnose function</li> <li>▪ Module status LED indicator</li> </ul>	 
<b>New</b> AHRTU-PFBS-5A	1.9w / -	<ul style="list-style-type: none"> <li>▪ PROFIBUS-DP remote I/O module</li> <li>▪ Max. speed: 12Mbps</li> <li>▪ Supports AH500 digital I/O modules, analog I/O modules, temperature measurement modules</li> <li>▪ Installs on main backplane</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports 7 extension backplanes</li> <li>▪ Diagnose function</li> <li>▪ Module status LED indicator</li> <li>▪ Configurable I/O capacity: 122 words for input / 122 words for output</li> </ul>	

# Ordering Information

## Motion Control Modules

Model	Terminal block type	Power consumption (Internal)	Accessories (optional)	Specifications		Certificates
AH02HC-5A	EU removable terminal block	2.4w	-	<ul style="list-style-type: none"> <li>▪ 2 high speed counter channels</li> </ul>		
AH04HC-5A	HDC	2.4w	DVPACAB7D10 DVPACAB7E10 DVAETB-IO16C	<ul style="list-style-type: none"> <li>▪ 4 high speed counter channels</li> </ul>		
AH05PM-5A	EU removable terminal block	2.7w	-	<ul style="list-style-type: none"> <li>▪ 2-axis pulse train motion control module</li> <li>▪ Supports 1MHz output</li> <li>▪ Supports 2-axis linear interpolation, 2-axis arc interpolation</li> </ul>		
AH10PM-5A	HDC	2.7w	DVPACAB7E10 DVAETB-IO24C	<ul style="list-style-type: none"> <li>▪ 6-axis pulse train motion control module</li> <li>▪ Supports 1MHz output (4 axes)</li> <li>▪ 200K Hz output (2 axes)</li> <li>▪ Supports 2~6 axis linear interpolation, 2-axis arc interpolation and 3-axis helical interpolation</li> <li>▪ Built in Ethernet communication port</li> <li>▪ Supports Micro SD card</li> </ul>		 
<b>New</b> AH15PM-5A	HDC	2.7w	DVPACAB7E10 DVAETB-IO34C	<ul style="list-style-type: none"> <li>▪ 4-axis pulse type motion control module</li> <li>▪ Supports 1MHz output</li> <li>▪ Supports 2~4-axis linear interpolation, 2-axis arc interpolation, 3-axis helical interpolation</li> <li>▪ Built-in Ethernet communication port</li> <li>▪ Supports Micro SD card</li> <li>▪ <b>Supports limit switch</b></li> </ul>		
AH20MC-5A	HDC	3w	DVPACAB7D10 DVAETB-IO16C	<ul style="list-style-type: none"> <li>▪ 12-axis DMCNET communication motion control module (10Mbps)</li> <li>▪ 12 axes synchronization in 1ms</li> <li>▪ Supports 2~6 axes linear interpolation, 2-axis arc interpolation and 3-axis helical interpolation</li> <li>▪ Built in Ethernet communication port</li> <li>▪ Supports Micro SD card</li> </ul>		

## Software

Software	Model	License	Descriptions	Compatible Products
ISPSoft [V2]	-	Free	PLC programming software	AH500 series, DVP series PLCs
COMMGR [V1]	-	Free	Communication management software	AH500 series, DVP series PLCs
PMSoft [V2]	-	Free	Motion control programming software	AH500 series, DVP series motion controllers
DCISoft [V1]	-	Free	Ethernet configuration software	AH500 series Ethernet / serial communication modules, DVP series built-in Ethernet PLCs, DVP series Ethernet / serial communication modules, IFD series Ethernet modules, CMC series Ethernet cards for Delta motor drives
DeviceNet Builder [V2]	-	Free	DeviceNet configuration software	AH500 series DeviceNet modules, DVP series DeviceNet modules, CMC series DeviceNet cards for Delta motor drives
CANopen Builder [V2]	-	Free	CANopen configuration software	AH500 series CANopen modules, DVP series built-in CANopen PLCs, DVP series CANopen modules, DVP10MC motion controller
SYCON.net [V2]	-	Free	PROFIBUS DP configuration software	AH500 series PROFIBUS DP modules
<b>New</b> Delta OPC [V1]	HASP-20-OPC01	Hardware license (USB)	Delta OPC server	AH500 series PLCs

## Accessories

Products	Descriptions	Models	Specifications	Applicable Modules	Certificates	
Cables	Extension cable for connecting extension backplane	AHACAB06-5A	0.6m	AHBP04M1-5A / AHBP06M1-5A / AHBP08M1-5A AHBP12M1-5A / AHBP06E1-5A / AHBP08E1-5A		
		AHACAB10-5A	1.0m			
		AHACAB15-5A	1.5m			
		AHACAB30-5A	3.0m			
		AHACAB50-5A	5.0m			
		AHACABA0-5A	10.0m			
		AHACABA5-5A	15.0m			
		AHACABB0-5A	20.0m			
		AHACABC0-5A	30.0m			
		AHACABD0-5A	40.0m			
		AHACABE0-5A	50.0m			
		AHACABF0-5A	60.0m			
		AHACABG0-5A	70.0m			
		AHACABH0-5A	80.0m			
		AHACABI0-5A	90.0m			
		AHACABJ0-5A	100.0m			
External terminal modules	I/O extension cable for I/O connecting external terminal modules	DVPACAB7A10	1.0m / Latched connector	AH32AM10N-5C / AH32AN02T-5C / AH32AN02P-5C / AH64AM10N-5C / AH64AN02T-5C / AH64AN02P-5C		
		DVPACAB7B10	1.0m / Latched connector	AH32AN02T-5C / AH32AN02P-5C / AH64AN02T-5C / AH64AN02P-5C		
		DVPACAB7C10	1.0m / DB37	AH32AM10N-5B / AH32AN02T-5B / AH32AN02P-5B		
		DVPACAB7D10	1.0m / HDC	AH04HC-5A / AH20MC-5A		
		DVPACAB7E10	1.0m / HDC	AH10PM-5A / AH15PM-5A		
	CANopen / DeviceNet cables	TAP-CB01	305.0m (Thick / Trunk Cable)	AH10COPM-5A / AH10DNET-5A / AHRTU-DNET-5A / TAP-CN01 / TAP-CN02 / TAP-CN03		
		TAP-CB02	305.0m (Thin / Drop Cable)			
	CANopen / DeviceNet / DMCNET cables	TAP-CB03	0.3m / RJ45	AH20MC-5A / TAP-CN03		
		TAP-CB05	0.5m / RJ45			
		TAP-CB10	1.0m / RJ45			
		TAP-CB20	2.0m / RJ45			
		TAP-CB30	3.0m / RJ45			
		TAP-CB100	10.0m / RJ45			
Terminal resistors	PROFIBUS cables	TAP-CBDP	100.0m	AH10PFBM-5A / AH10PFBS-5A / AHRTU-PFBS-5A		
	For digital input modules	DVPAETB-ID32A	Latched connector	AH32AM10N-5C / AH64AM10N-5C		
		DVPAETB-ID32B	DB37	AH32AM10N-5B		
	For digital output modules	DVPAETB-OR16A	16 points relay output (240VAC / 24VDC, 2A) Latched connector	AH32AN02T-5C / AH64AN02T-5C		
		DVPAETB-OR16B	16 points relay output (240VAC / 24VDC, 2A) Latched connector	AH32AN02P-5C / AH64AN02P-5C		
		DVPAETB-OR32A	32 points relay output (240VAC / 24VDC, 2A) DB37	AH32AN02T-5B		
		DVPAETB-OR32B	32 points relay output (240VAC / 24VDC, 2A) DB37	AH32AN02P-5B		
		DVPAETB-OT32A	Transistor output latched connector	AH32AN02T-5C / AH32AN02P-5C / AH64AN02T-5C / AH64AN02P-5C		
		DVPAETB-OT32B	Transistor output DB37	AH32AN02T-5B / AH32AN02P-5B		
	For motion control modules	DVPAETB-IO16C	HDC	AH04HC-5A / AH20MC-5A		
		DVPAETB-IO24C	HDC	AH10PM-5A		
		DVPAETB-IO34C	HDC	AH15PM-5A		
Distribution box	DMCNET terminal resistors (RJ45)	ASD-TR-DM0008				
	CANopen / DeviceNet terminal resistors (RJ45)	TAP-TR01				
Dummy modules	CANopen / DeviceNet distribution Box	TAP-CP01	Power distribution box			
		TAP-CN01	1 for 2			
		TAP-CN02	1 for 4			
		TAP-CN03	1 for 4 (RJ45)			
DIN rail	To protect empty slots	AHASP01-5A				
DIN rail	Used on DIN rail for rack installation	AHADINADP1-5A				
Fiber optics modules for backplanes	Used for backplane extension via fiber optics (installs at the backplane's lower extension port)	AHAADP01EF-5A	▪ Optical fiber connector: SC ▪ Supported optical fiber types: multi-modes, 62.5/125 µm or 50/125 µm	AHBP04M1-5A / AHBP06M1-5A / AHBP08M1-5A / AHBP12M1-5A / AHBP06E1-5A / AHBP08E1-5A	 	
	Used for backplane extension via fiber optics (installs at the backplane's upper extension port)	AHAADP02EF-5A	▪ Optical fiber max. length: 2km	AHBP06E1-5A / AHBP08E1-5A		
Memory card	SD card: 1 GB	FMC-SD001G	▪ Capacity: 1 GB ▪ Speed (Read / Write) : Max. 18/15 MB/s	▪ Overwrite: 10,000 times ▪ Operation temperature: -40~85°C		

## Global Operations

ASIA (Taiwan)



Delta Electronics  
Taiwan Center



Plant 3



Innovation Center

ASIA (China)



Wujiang Plant 3



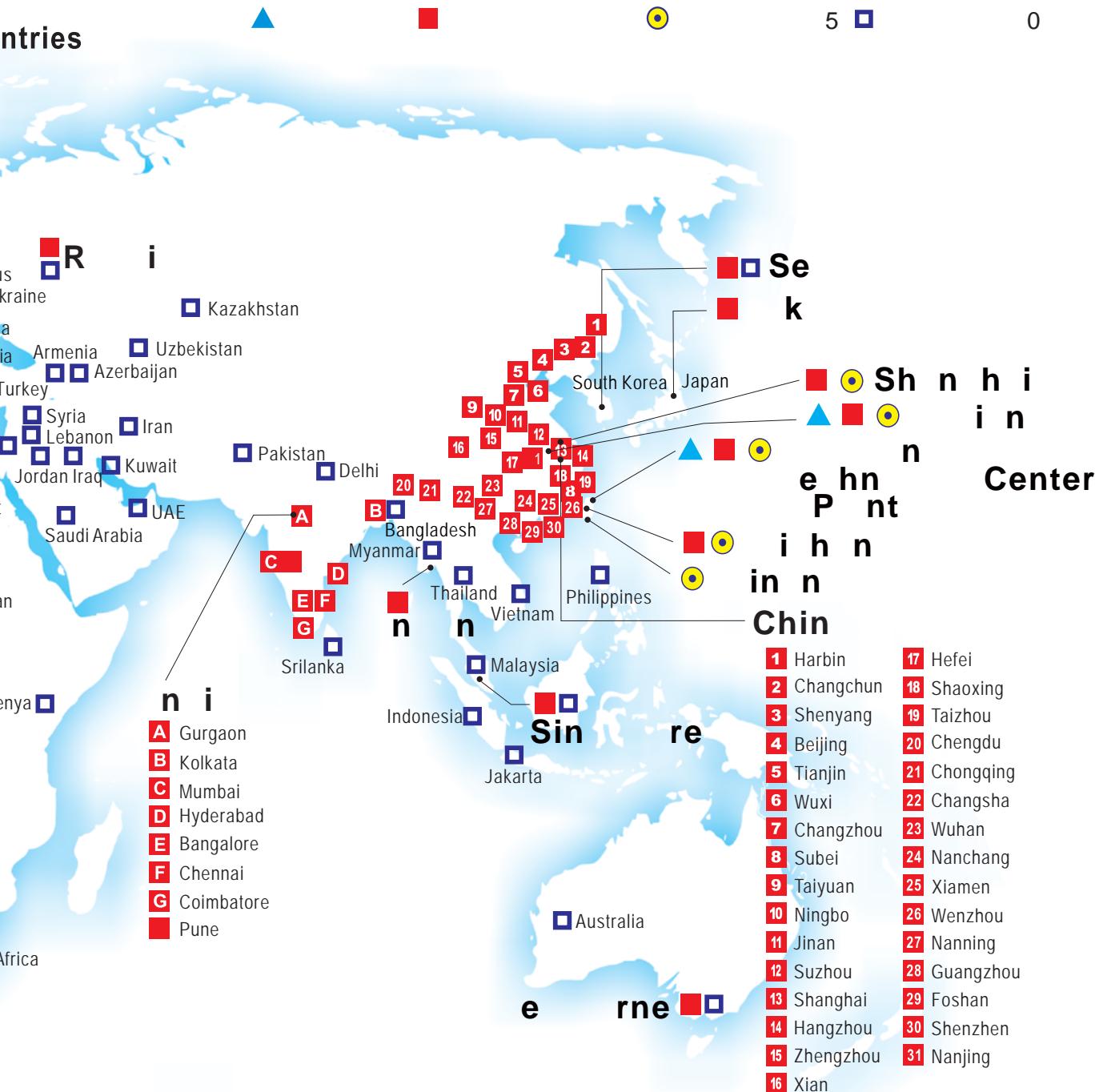
Delta Electronics

Sales Channels of Delta Industrial Automation are Located Worldwide in 74 Countries

- A** Mexico City
- B** Monterrey
- C** Guadalajara

- A** Finland
- B** Estonia
- C** Sweden
- D** Denmark
- E** Netherlands
- F** Germany
- G** Poland
- H** Czech
- I** Hungary
- J** Slovenia
- K** Croatia
- L** Serbia
- M** Austria
- N** Slovakia

- A** Minas Gerais
- B** Espírito Santo
- C** Rio de Janeiro
- D** São Paulo State
- E** Paraná
- F** Santa Catarina
- G** Rio Grande do Sul
- H** Amazonas





Transmisiones Ltda. Carrera 68 B # 21 A -  
24, bodega UE 28-1 Parque Industrial  
Montevideo PBX: (57+1) 4126898  
Bogotá - Colombia  
[info@transmisiones.de](mailto:info@transmisiones.de)  
[www.transmisiones.de](http://www.transmisiones.de)

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