



Automation for a Changing World

Delta Hot Swappable Mid-range Redundant PLC AH560



www.deltaww.com



Redundant CPU AH560

The AH560 Series redundant CPU matches one or more synchronous module extension, and supports Ethernet ports and serial communication interfaces for flexible communication. It can be integrated in a redundancy structure for a more reliable and competitive control solution.

AHCPU560-EN2

Serial port

- Removable terminal block
- RS-232 / RS-485

Sync. optical port

- Data synchronization

SD card

- Micro SD (max. 32 GB)

Ethernet port

- RJ45 x 2
- EtherNet/IP (DLR)

Redundant Backplane



Redundant main backplane: AHBP04MR1-5A (4-slot), AHBP06MR1-5A (6-slot), AHBP08MR1-5A (8-slot)



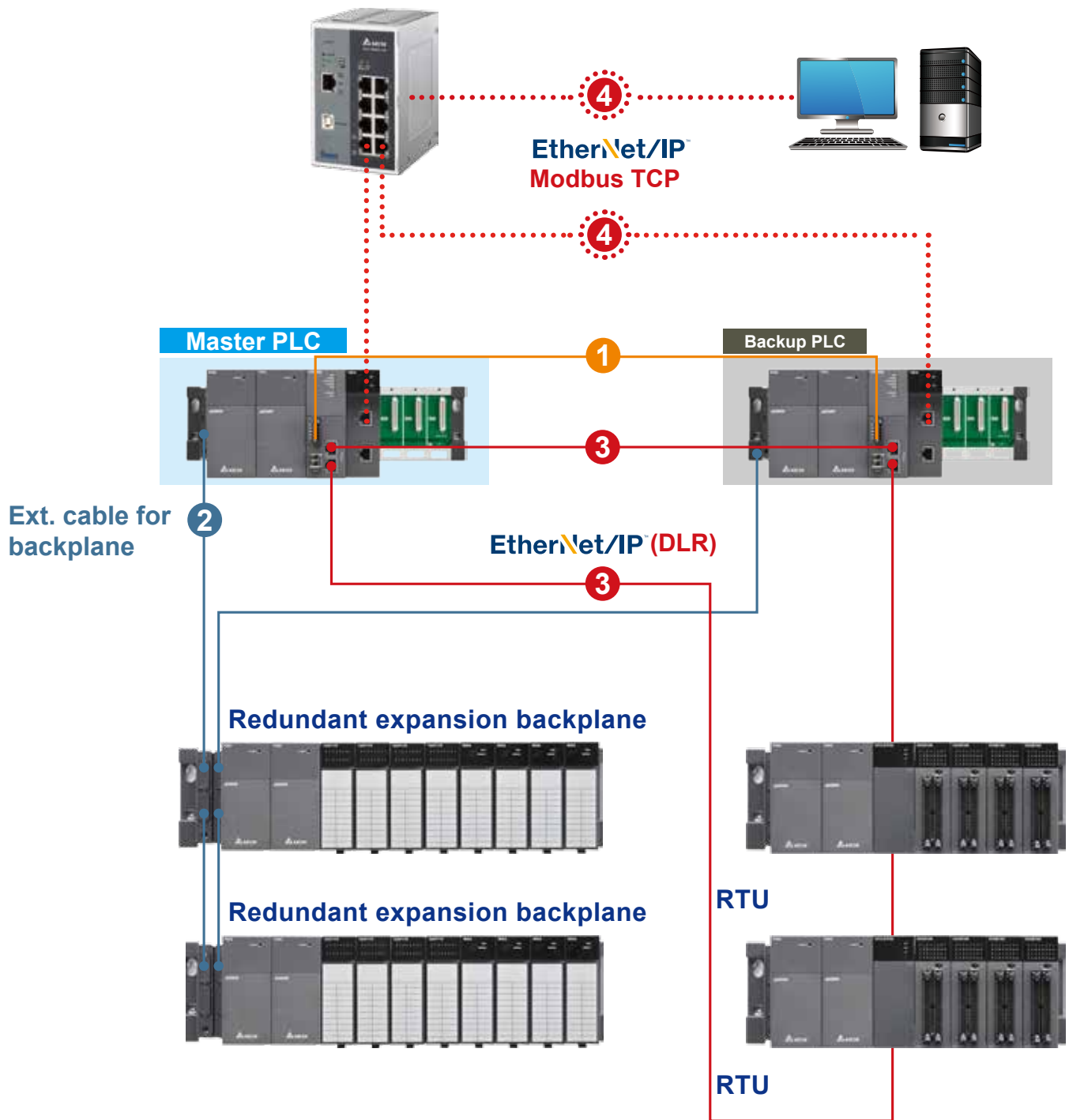
Redundant expansion backplane: AHBP06ER1-5A (6-slot), AHBP08ER1-5A (8-slot)



Product Specifications

Model	AHCPU560-EN2
Local I/O Points	4,352
Program Capacity	1M steps (4 MB)
Data Register D/L/B (note)	256 k/256 k/4,096 k words
Function Blocks	4,096
Extension Backplane	7
LD execution Speed (µs)	0.02
Power Consumption (Internal)	4.5 w
Specifications	<ul style="list-style-type: none"> ▪ Built-in RS-232/485 multi-modes communication port x1 (RS-232:115.2 kbps/RS-485: 921.6 kbps) ▪ Built-in Ethernet communication port (100 Mbps) ▪ Built-in SD card slot (supports max. 32 GB) ▪ Built-in Mini-USB port (for programming) ▪ System diagnosis/status light/online editing and debug functions ▪ PLC Link automatic data exchange function ▪ Modbus RTU/ASCII, Modbus TCP ▪ EtherNet/IP <ul style="list-style-type: none"> - Scanner & Adapter mode - Supports I/O connection & explicit message - Connections: TCP= 128; CIP= 256 - RPI: 1 ~ 1,000 ms - 250 words/connection ▪ LD/SFC/FBD/IL/ST languages ▪ 256 interrupts (Timed/IO/External/Low voltage/Communication) ▪ Redundant mode: timed interrupt/Cyclic ▪ 2048 timers and counters ▪ No battery required ▪ RTC function (max. 30 days after power off) ▪ NTP network time correction function ▪ WEB/E-mail/IP Filter function ▪ Supports redundant system <ul style="list-style-type: none"> - CPU switch-over time: 20 ms - Built-in sync. module
Certificates	 

Redundant System



1 Sync. optical fiber

3 EtherNet/IP ring topology (DLR)

2 Ext. cable for backplane

4 Star topology EtherNet/IP, Modbus TCP

System Specifications

Full Redundancy Structure

Redundant CPU	Redundant main backplane	Redundant power	Redundant ext. ports	Ring topology
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Supported Modules at Different Installations

Main backplane	Expansion backplane	RTU rack
<ul style="list-style-type: none"> ▪ Ethernet module - AH10EN-5A (V3) ▪ Serial module - AH10SCM-5A (V3) 	<ul style="list-style-type: none"> ▪ DIO ▪ AIO (include temperature modules) ▪ Serial modules - AH10SCM-5A, AH15SCM-5A 	<ul style="list-style-type: none"> ▪ DIO ▪ AIO (include temperature modules)

System Features

Supported tasks: cyclic/timer interrupt

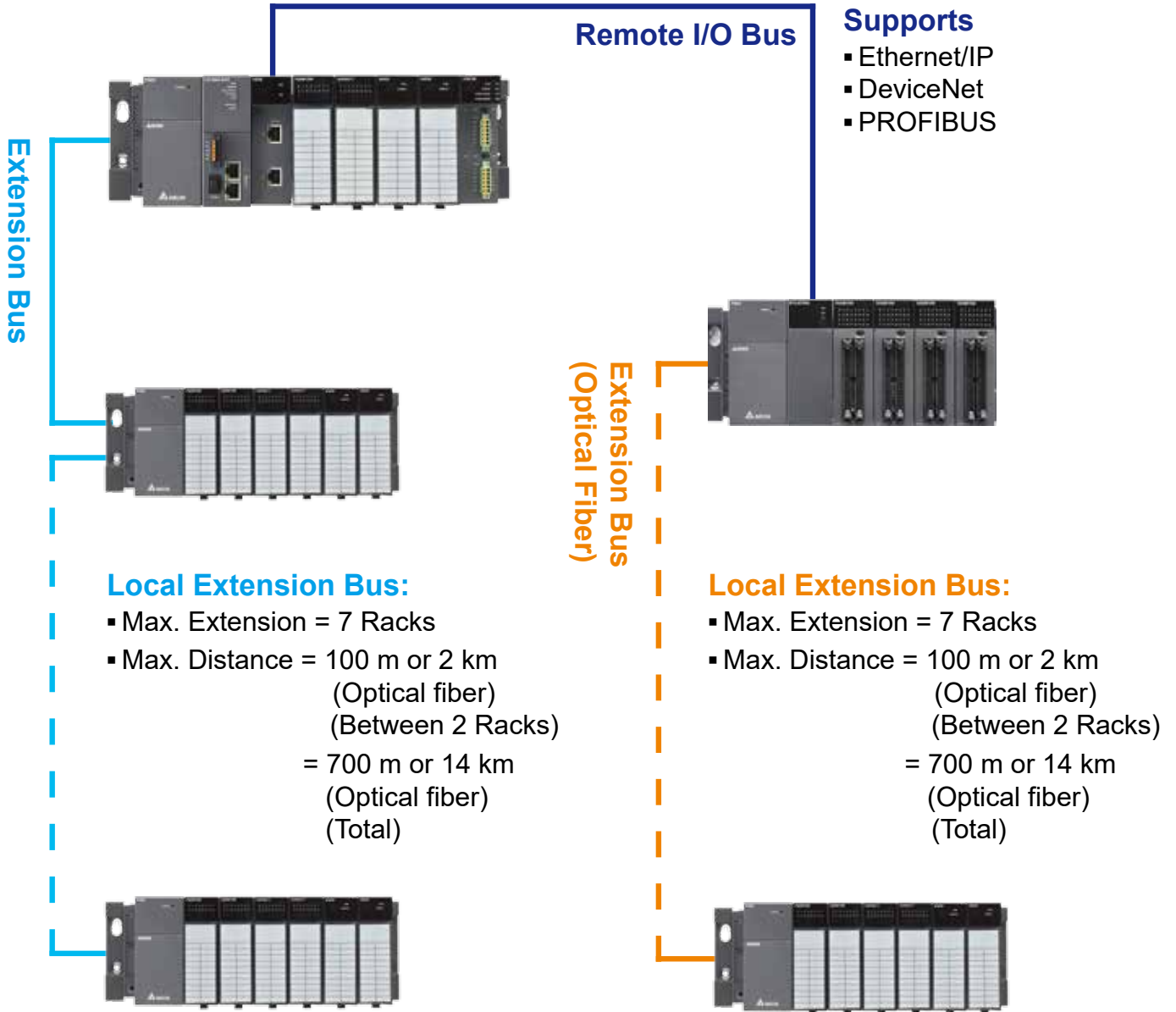
CPU with built-in synchronized function

CPU switch-over time: 20 ms

RTU nodes to support expansion backplanes

Standard backplanes available (under some conditions)

Extended System Flexibility



Applications



Automated Manufacturing

- Smart factory
- Material handling
- Smart logistics



Machinery Monitoring

- OEM machine monitoring
- Production monitoring



Energy Monitoring

- Water treatment
- Wind/gas/oil power generation management



Environment Monitoring

- HVAC
- Solar power management



Smarter. Greener. Together.

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