



Delta high performance mid-range PLC

AH500 series Programmable Logic Controllers

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

AH500 series Mid-range PLC system *LD/SFC/FBD/IL/ST languages*

- Highly integrated software ISPSOft: graphical interface with 5 programming languages
- Enhanced flexibility: Max. 100 meters between 2 local extension racks
- Hot-swapping function keeps system running for improved maintainability
- Reliable operations of the supported modules in severe conditions
- Utilizes a dual-core multi-tasking processor
- Maxl. I/O points:
 - DIO: Max. 4,352 points
 - AIO: Max. 544 channels
 - RIO: Max. 125,440 digital points / 3,920 analog channels
- Program capacity: Max. 256K steps / Data register 64K words
- Excellent program execution speed: 0.3ms / 1k steps
- CPU built-in with fully isolated RS232/422/485, Mini-USB, Ethernet, SD Card 1.0



AHCPU500-RS2



AHCPU520-EN

CPU modules *internal power consumption (2w)*

type	local I/O (points)	program capacity (steps)	data register (K words)			function blocks	extension backplane
			D	L	B		

RS2 series CPU modules

- MODBUS RTU/ASCII
- 2048 timers and counters
- Built-in SD card slot, Mini-USB programming port
- Built-in RS232/422/485 multi-modes communication port x 2
- No battery required RTC function (*max. 30 days after power off*)
- Program execution speed: LD instruction @ 0.02µs / 1K steps @ 0.3ms

AHCPU500-RS2	768	32k	16	16	512	128	0
AHCPU511-RS2	1280	96k	48	48	1024	1024	1
AHCPU520-RS2	2304	128k	64	64	2048	512	3
AHCPU530-RS2	4352	256k	64	64	4096	1024	7

EN series CPU modules *(with built-in EtherNet communication port 100Mbps)*

As RS2 above, but with additional:

- WEB/E-mail/IP Filter function
- Built-in Ethernet communication port
- NTP network time correction function

AHCPU500-EN	768	32k	16	16	512	128	0
AHCPU511-EN	1280	96k	48	48	1024	1024	1
AHCPU521-EN	2304	192k	96	96	2048	2048	3
AHCPU531-EN	4352	384k	128	128	4096	4096	7

Main backplanes *internal power consumption (0.01W)*

- Built-in communication port for extension backplanes
- Slot spaces are not occupied by Power/CPU/RTU modules
- Supports CPU modules, remote I/O communication modules (RTU)

type	slots	description
AHBP04M1-5A	4	main backplane supports CPU, remote I/O modules
AHBP06M1-5A	6	main backplane supports CPU, remote I/O modules
AHBP08M1-5A	8	main backplane supports CPU, remote I/O modules
AHBP12M1-5A	12	main backplane supports CPU, remote I/O modules

Extension backplanes *internal power consumption (1.41W)*

- For main backplane extension
- Built-in communication port for backplanes

AHBP06E1-5A	6	ext. backplane supports CPU, remote I/O modules
AHBP08E1-5A	8	ext. backplane supports CPU, remote I/O modules

Power supply modules *internal power consumption (1.41w)*

- Power supply for the modules on the racks

		supply		
AHPS05-5A	60W	100 - 240 VAC	50/60Hz	power supply module
AHPS15-5A	36W	24 VDC		power supply module

Cables and external terminal modules see page C-12



AHBP06M1-5A



AHPS05-5A