AH500 series - High performance PLC system

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

- LD/SFC/FBD/IL/ST languages
- Utilizes a dual-core multi-tasking processor
- Reliable operations of the supported modules in severe conditions
- Enhanced flexibility: Max. 100 meters between 2 local extension racks
- Hot-swapping function keeps system running for improved maintainability
- CPU built-in with fully isolated RS-232/422/485, Mini-USB, Ethernet, SD Card 1.0
- Highly integrated software ISPSoft: graphical interface with 5 programming languages IEC61131-3
- MaxI. 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 modules   *internal power consumption (2W)*

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

AHCPU500-RS2 (label under image)

AHCPU521-EN (label under image)

RS2 series CPU modules

- Built-in RS-232/422/485 multi-modes communication port x 2
- Built-in SD card slot, Mini-USB programming port
- Program execution speed: LD instruction @ 0.02µs / 1K steps @ 0.3ms
- MODBUS RTU/ASCII
- 2048 timers and counters
- No battery required RTC function *(max. 30 days after power off)*

type	local I/O	program capacity	D	L	B	function blocks	extension backplane
AHCPU500-RS2	768	32k	16	16	512	128	0
AHCPU511-RS2	1280	96k	48	48	1024	1024	1

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

As RS2 above, but with one less comm. port:
- WEB/E-mail/IP Filter function
- Built-in Ethernet communication port
- NTP network time correction function

type	local I/O	program capacity	D	L	B	function blocks	extension backplane
AHCPU510-EN	1280	64k	32	32	1024	256	1
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

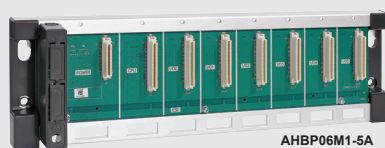### Main backplanes   *internal power consumption (0.01W)*

- 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)

AHBP06M1-5A (label under image)

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

Extension backplanes   *internal power consumption (1.41W)*

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

type	slots	description
AHBP06E1-5A*	6	ext. backplane suppports CPU, remote I/O modules
AHBP08E1-5A*	8	ext. backplane suppports CPU, remote I/O modules

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

- Power supply for the modules on the racks

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

* For extension backplane cables, see C-13

AHPS05-5A (label under image)