

AC500-XC

Technical data

AC500-XC CPUs

Type	PM591-ETH-XC	PM592-ETH-XC	PM595-4ETH-M-XC
Supply voltage	24 V DC		
Current consumption on 24 V DC			
Min. (module alone)	0.150 A		0.400 A
Max. (all couplers and I/Os)	0.850 A		1.2 A
User program memory - Flash EPROM and RAM	4096 kB		16384 kB
Integrated user data memory	5632 kB thereof 1536 kB saved		16384 kB thereof 3072 kB saved
User Flashdisk (Data-storage, program access or also external with FTP)	-		Yes, 4 GB Flash non removable
Plug-in memory card	depending on SD-Card used: no SD-HC card allowed, use MC502 accessory		
Web server's data for user RAM disk	8 MB		32 MB
Data buffering	battery		no battery needed
Real-time clock (with battery back-up)	●		
Cycle time for 1 instruction (minimum)			
Binary	0.002 μs		0.0006 μs
Word	0.004 μs		0.001 μs
Floating-point	0.004 μs		0.001 μs
Max. number of centralized inputs/outputs			
Max. number of extension modules on I/O bus	up to max. 10 (S500 allowed)		
Digital	inputs / outputs		320 / 320
Analog	inputs / outputs		160 / 160
Max. number of decentralized inputs/outputs	depends on the used standard Fieldbus (1)		
Program execution			
Cyclical / Time controlled / Multi tasking	● / ● / ●		
User program protection by password	●		
Internal interfaces			
COM1			
RS232 / RS485 configurable	●		
Connection (on terminal bases)	pluggable spring terminal block, use TK502 cable in accessory		
Programming, Modbus RTU, ASCII, CS31 master	●		
COM2			
RS232 / RS485 configurable	●		
Connection (on terminal bases)	D-sub 9 female, use TK501 cable in accessory		
Programming, Modbus RTU, ASCII	●		
FieldBusPlug			
Serial neutral interface	●		-
Connection (on terminal bases)	M12 male, 5 pole		-
Functions	programming cable UTF-21-FBP, slave communication depending on FieldBusPlug used (PROFIBUS DP, CANopen, DeviceNet)		
Ethernet			
Ethernet connection (on terminal bases)	RJ45	RJ45	2x RJ45
Ethernet functions: online Access, ICMP (Ping), DHCP, IP configuration protocol, UDP data exchange, Modbus TCP, HTTP (integrated Web server), IEC60870-5-104 remote control protocol, MQTT, SNTP (Time synchronization), FTP server, SMTP client, Socket programming	●	●	●
Ethernet based Fieldbus			
Ethernet connection (on CPU module)	-		4 x RJ45 (2x interfaces with 2-port switch)
Downloadable protocols like: PROFINET IO RT Controller / EtherCAT Master or Ethernet e.g. Modbus TCP client/server	-		●
CPU display	LC display and 8 function keys		-
Function	RUN / STOP, status, diagnosis		Status, diagnosis
RUN / STOP, RESET push buttons	-		●
LEDs for various status display	-		●
Timers / Counters	unlimited / unlimited		
Approvals	See detailed page 238 or www.abb.com/plc		

(1) e.g. CS31 Fieldbus: up to 31 stations with up to 120 DI/ 120 DOs or up to 32 AI/ 32 AO per station.