

AC500-eCo

Technical data

AC500-eCo CPUs

Type	PM564-TP-ETH	PM566-TP-ETH	PM564-RP-ETH	PM564-RP-ETH-AC
Supply voltage	24 V DC			100-240 V AC
Current consumption on	24 V DC			100 V AC 240 V AC
Min. (module alone)	0.10 A	0.10 A	0.12 A	0.023 A 0.014 A
Max. (I/Os)	0.22 A	0.22 A	0.25 A	0.22 A 0.13 A
Program memory	128 kB	512 kB	128 kB	
Integrated data memory	14 kB thereof 2 kB saved	130 kB thereof 2 kB saved	14 kB thereof 2 kB saved	
Web server's data for user RAM disk	512 kB	1024 kB	512 kB	
Data buffering (of saved data)	flash memory			
Real-time clock (option with battery back-up) (1)	●			
Program execution				
Cyclical	●			
Time controlled	●			
Multi tasking	no, 1 task + 1 interrupt task max.			
Interruption	●			
User program protection by password	●			
Cycle time for 1 instruction (minimum)				
Binary	0.08 μs			
Word	0.1 μs			
Floating	1.2 μs			
Onboard digital inputs				
Channels	6 (including 2 counter inputs, or up to 4 interrupt inputs)			
Signal voltage	24 V DC			
Onboard digital outputs				
Channels	6 (including 2 PWM outputs for types with transistor outputs)			
Relay / Transistor	Transistor	Transistor	Relay	Relay
Rated voltage	24 V DC	24 V DC	240 V AC	240 V AC
Nominal current per channel	0.5 A	0.5 A	2 A resistive	2 A resistive
Onboard analog inputs				
Channels	2			
signal ranges	0...10 V / can be configured as digital input 24 V DC			
Onboard analog outputs				
Channels	1			
signal ranges	0...10 V / 0...20 mA / 4...20 mA			
Max. number of centralized inputs/outputs				
Max. number of extension modules on I/O bus	up to max. 10 (S500 and/or S500-eCo modules allowed)			
Digital	inputs	320 + 8		
	outputs	320 + 6		
Analog	inputs	160 + 2		
	outputs	160 + 1		
Max. number of decentralized inputs/outputs				
On CS31 bus	up to 31 stations with up to 120 DI / 120 DO each or up to 32 AI/32 AO per station			
Internal interfaces				
COM1				
RS485	●			
Sub-D connection	●			
Programming, Modbus-RTU, ASCII, CS31	●			
COM2 (option) (2)				
RS485 / RS485 isolated	●/●			
Terminal block	●			
Programming, Modbus-RTU, ASCII	●			
Ethernet				
RJ45	●			
Ethernet functions: Programming, Modbus TCP/IP, UDP/IP, integrated Web server, DHCP, FTP server, SNMP client	●			
SMTP	–	●	–	–
RUN/STOP switch	●			
LED for power, status and error	●			
Approvals	see detailed overview page 238 or www.abb.com/plc			

(1) Real-time clock requires optional TA561-RTC or TA562-RS-RTC.

(2) COM2 requires TA562-RS-RTC, TA562-RS or new TA569-RS-ISO.