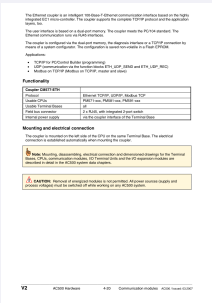


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

ABB CM577-ETH

Ethernet TCP/IP Communication Module



LINK RATE	PORTS	DUAL-PORT RAM	AMBIENT
10/100 Mbit/s	2 x RJ45	8 kByte	0-60 C

ABB CM577-ETH adds Ethernet communication to a supported AC500 CPU through the terminal-base coupler bus. Its two RJ45 sockets connect through an integrated two-port switch, with 10 or 100 Mbit/s transmission.

01

VERIFIED PRODUCT PARAMETERS

Ethernet link rates	10 or 100 Mbit/s
Physical connectors	Two RJ45 sockets
Integrated switching	Internal two-port Ethernet switch
Supported protocols	TCP/IP, UDP/IP and Modbus TCP
Modbus TCP roles	Master and slave
Documented CPU families	PM571-xxx, PM581-xxx and PM591-xxx
CPU data interface	8 kByte dual-port memory
Internal power source	Terminal-base coupler interface
Typical coupler-bus current	420 mA
Processor	EC1, 160 pins; 48 MHz

Technical values were verified against ABB AC500 Hardware V2, 03.2007, CM577-ETH pp.117-120.

02 ADDITIONAL TECHNICAL DATA

Internal RAM	256 kByte
Firmware flash memory	512 kByte
Configuration retention	Non-volatile Flash EPROM
Operating ambient	0-60 C
Status indicators	PWR, RDY, RUN, STA, ERR and port LINK/ACT indicators

03 SYSTEM ROLE AND APPLICATIONS

Order 1SAP170700R0001 identifies CM577-ETH. The documented applications include Control Builder programming, UDP function-block communication and Modbus TCP master or slave operation. Preserve the installed network configuration and verify its applicability to the CPU before replacement.

- TCP/IP engineering access from a PC running Control Builder.
- UDP exchange through ETH_UDP_SEND and ETH_UDP_REC function blocks.
- Modbus TCP master or slave data communication.

04 OFFICIAL INSTALLATION FACTS

- Switch off all supply and process voltages before working on the AC500 station; energized module removal is prohibited.
- Match CM577-ETH and order 1SAP170700R0001 to the supported CPU and terminal base.
- Mount the coupler to the left of the CPU; its power and CPU data connection are provided through the base.
- Connect the engineered Ethernet links to the two RJ45 sockets, observing the documented cable shield and pin assignment.

05 OFFICIAL DOCUMENTATION

[ABB AC500 Hardware V2, 03.2007, CM577-ETH pp.117-120](#)

AMIKON PRODUCT SUPPORT

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