

BMEH584040S

Schneider Electric · Modicon M580

Modicon M580 Redundant Hot Standby Safety CPU, Level 4, SIL3

Processor

ARM dual-core (redundant Hot Standby)

Clock speed

600 MHz

Program memory

16 MB integrated RAM

Data memory

768 KB data memory

Programming software

EcoStruxure Machine Expert (Unity Pro XL)

Performance level

Level 4

Safety integrity

SIL3 / IEC 61508

Architecture

Redundant Hot Standby (HSBY)

Remote I/O racks

16 remote I/O racks (X80 & Quantum I/O)

Distributed devices (DIO)

61 distributed devices

Compatible racks

4, 6, 8, 12 slots (X80 Ethernet backplane)

Slot occupation

2 slots

Built-in ports

1× Ethernet service port (RJ45), 2× Ethernet RIO/DIO ports (RJ45), 1× USB Mini-B

Protocols

Modbus TCP/IP, EtherNet/IP, PROFI-safe (over PROFINET)

Communication expansion

X80 backplane communication modules (BMENOC03xx Ethernet/IP, BMENOS0300 serial, BMENOR2200 RIO, BMENUA0100 universal automation)

Supply voltage

24 V DC (19.2-31.2 V DC via backplane)

Power consumption

8.0 W

Bus current

330 mA @ 24 V DC

Operating temperature

0°C to +60°C

Storage temperature

-25°C to +70°C

Relative humidity

5% to 95% (non-condensing)

Protection rating

IP20

Coating

Conformal coated

Dimensions (H×W×D)

100 × 56 × 93 mm

Weight

0.849 kg

SD card

4 GB optional (BMXRMS004GPF)

Lifecycle

Active (current flagship ePAC platform, introduced 2014, replaces Quantum/Premium) (Last verified: 2026-09)

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