

BMEH586040S

Schneider Electric · Modicon M580

Modicon M580 Redundant Hot Standby Safety CPU, Level 6, SIL3

Processor

ARM dual-core (redundant Hot Standby)

Clock speed

600 MHz

Program memory

64 MB integrated RAM

Data memory

1 MB data memory

Programming software

EcoStruxure Machine Expert (Unity Pro XL)

Performance level

Level 6

Safety integrity

SIL3 / IEC 61508

Architecture

Redundant Hot Standby (HSBY)

Remote I/O racks

31 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

PROFIsafe (over PROFINET) devices

128

Built-in ports

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

Protocols

Modbus TCP/IP, EtherNet/IP, PROFIsafe (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

8.6 W

Bus current

360 mA @ 24V 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)