

# BMEH582040S

Schneider Electric · Modicon M580

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Modicon M580 Redundant Hot Standby Safety CPU, Level 2, SIL3

**Processor**

ARM dual-core (redundant Hot Standby)

**Clock speed**

600 MHz

**Program memory**

8 MB integrated RAM

**Data memory**

512 KB data memory

**Programming software**

EcoStruxure Machine Expert (Unity Pro XL)

**Performance level**

Level 2

**Safety integrity**

SIL3 / IEC 61508

**Architecture**

Redundant Hot Standby (HSBY)

**Remote I/O racks**

8 X80 remote I/O racks

**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**

7.2 W

**Bus current**

300 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)