

# BMEP583040

Schneider Electric · Modicon M580

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Modicon M580 ePAC CPU, Level 3, Remote I/O (RIO/DIO)

**Processor**

ARM dual-core

**Clock speed**

600 MHz

**Program memory**

12 MB integrated RAM (application program)

**Data memory**

768 KB data memory

**Internal RAM**

Integrated (see program/data memory)

**Programming software**

EcoStruxure Machine Expert (Unity Pro XL)

**Scan speed**

40 Kinst/ms (100% boolean) / 30 Kinst/ms (mixed)

**Performance level**

Level 3

**Discrete I/O (max)**

3072 points

**Analog I/O (max)**

768 points

**Application channels**

64

**Compatible racks**

4, 6, 8, 12 slots (single PSU); 6, 10 slots (redundant PSU) — X80 Ethernet backplane

**Local racks**

8 racks total (1 main + 7 expansion)

**Expansion racks**

7 expansion racks

**Remote I/O drops**

16 remote I/O drops

**Distributed devices (DIO)**

61 distributed devices

**Built-in ports**

1× Ethernet service port (RJ45), 2× Ethernet RIO/DIO ports (RJ45, 10/100 Mbps), 1× USB Mini-B (480 Mbps)

**Protocols**

Modbus TCP/IP, EtherNet/IP, HTTP/HTTPS (Web server), Modbus Serial (via USB or comm module)

**Ethernet networks**

3 Ethernet networks

**Web server**

Standard (diagnostic/maintenance)

**Communication expansion**

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

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**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

**Dimensions (H×W×D)**

100 × 56 × 93 mm

**Weight**

0.849 kg

**Slot occupation**

2 slots (slots 0 and 1)

**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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