

LMC058LF42

Schneider Electric · Modicon LMC058

Motion Controller, 42 I/O, up to 8 synchronized axes, Modicon LMC058

Processor

Dual-core ARM Cortex-A8 (M258 platform)

Clock speed

Not available

Program memory

128 MB Flash

Data memory

64 MB RAM

Programming software

SoMachine / EcoStruxure Machine Expert

Scan speed

22 ns per Boolean instruction

Digital inputs

26 (10 fast + 12 regular + 4 configurable)

Digital outputs

16 (12 regular + 4 fast)

Analog inputs

None

Analog outputs

None

High-speed counters

Integrated (via fast inputs)

Pulse outputs

4 fast outputs

Expansion modules (max)

Up to 7 TM5 expansion modules

Built-in ports

1× Ethernet RJ45 (10/100BASE-TX), 1× serial RS-232/RS-485, 2× CAN (SUB-D9), 1× encoder input (SUB-D15), 1× USB-B mini (programming), 1× USB-A (memory stick)

Protocols

Modbus TCP/IP (Ethernet), Modbus RTU/ASCII (serial), CANopen master, CANmotion master (CAN)

Communication expansion

Built-in EtherNet/IP (Modbus TCP), CANopen, SERCOS III, RS-232/RS-485 serial; optional PCI communication modules

Number of axes

Up to 8 synchronized axes (2 ms cycle for 4 axes via CANmotion)

Motion protocol

CANopen master + CANmotion master

Encoder interfaces

1× incremental encoder input (SUB-D15, 5V differential RS-422)

Supply voltage

24 V DC (20.4...28.8 V)

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Power consumption

13.03 W

Bus current

0.28 A @ 24V DC (rated main supply current); 0.04 A (embedded expert modules)

Battery

3 V CR2477M lithium (for real-time clock / data retention)

Operating temperature

0...+55 °C

Storage temperature

-25...+70 °C

Relative humidity

10...95% (non-condensing)

Protection rating

IP20

Dimensions (H×W×D)

175 × 99 × 85 mm

Weight

0.55 kg

Mounting

Symmetrical DIN rail

Lifecycle

Discontinued 2026-06-30; End-of-service 2031-06-30 (Last verified: 2026-09)

Discontinued (End of Sale planned)

2026-06-30; Service end: 2031-06-30). Replacement: Modicon M262 or LMCever. (Last verified: 2026-09)

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