LMC058LF42S0

Schneider Electric · Modicon LMC058

Motion Controller (logic-only variant), 42 I/O, 0 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

www.AutoDCSTech.com

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
0 (logic-only variant; motion option not activated)

Motion protocol
CANopen master (CANmotion not activated)

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

Supply voltage
24 V DC (20.4...28.8 V)

Power consumption
13.03 W (same hardware as LMC058LF42)

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 (same mechanical body as LMC058LF42)

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)

www.AutoDCSTech.com