

TM258LF42DT4L

Schneider Electric · Modicon M258

Compact Logic Controller, 42 I/O + 4 analog inputs, transistor outputs, 24 VDC

Processor

Dual-core ARM Cortex-A8 (Core1: program tasks; Core2: communication tasks)

Clock speed

Not available

Program memory

128 K instructions

Data memory

64 MB RAM (internal); 128 MB Flash

Programming software

SoMachine / EcoStruxure Machine Expert

Scan speed

0.022 µs per Boolean instruction (45,000+ Boolean instructions per ms)

Digital inputs

26 (18 regular 24 Vdc + 8 fast HSC 100 kHz)

Digital outputs

16 (transistor, source/PNP, 0.5 A per point; 4 fast)

Analog inputs

4 (0-10 Vdc / 4-20 mA, 12-bit)

Analog outputs

None

High-speed counters

8 × 100 kHz

Pulse outputs

4 fast reflex outputs

Expansion modules (max)

Up to 7 TM5/TM2 expansion modules; max 2400 I/O

Built-in ports

1× Ethernet RJ45, 1× CANopen (SUB-D9), 1× serial link (RS-485), 1× USB-B mini (programming)

Protocols

Modbus TCP (Ethernet), CANopen master, Modbus RTU/ASCII (serial), proprietary programming protocol (USB)

Communication expansion

2 free PCI slots for optional communication/function modules (in addition to up to 7 TM5/TM2 I/O expansion modules)

Supply voltage

24 V DC (19.2...28.8 V)

Power consumption

14.14 W

Bus current

Not applicable (self-powered 24V DC compact controller; no backplane bus)

Operating temperature

0...+55 °C (0...+60 °C with derating)

Storage temperature

-25...+70 °C

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Relative humidity

10...95% (non-condensing)

Protection rating

IP20

Dimensions (H×W×D)

99 × 265 × 75 mm

Weight

0.77 kg

Lifecycle

Active (Last verified: 2026-09)

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