

Schneider Electric TM258LD42DR

Model: TM258LD42DR

Brand: Schneider Electric

Series: Modicon M258

Compact Logic Controller, 42 I/O, mixed relay+transistor outputs, 24 VDC

—— Hardware ——

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)

—— I/O Capacity ——

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

Digital outputs: 16 (4 fast transistor 0.1 A + 12 relay 2 A)

Analog inputs: None

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

—— Communication ——

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)

—— Electrical ——

Supply voltage: 24 V DC (19.2...28.8 V)

Power consumption: 17.22 W

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

—— Environmental ——

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

—— Physical ——

Dimensions (H×W×D): 99 × 265 × 75 mm

Weight: 0.5 kg

—— Status ——

Lifecycle: Active (Last verified: 2026-09)

—— Lifecycle ——

Active (Modicon M258 compact PLC with embedded Ethernet)



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