

logic controller, Modicon M258, compact base, 42 IO, 24V DC

TM258LD42DT

- ! To be discontinued on: Jun 30, 2026
- ! To be end-of-service on: Jun 30, 2031

① To be discontinued

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon M258		
Product or Component Type	Logic controller		
Product Specific Application	-		
Discrete I/O number	42		
Discrete output number	12 output 4 fast output		

Complementary

Discrete input number	10 fast input 12 input 4 regular input		
Discrete input logic	Sink fast input Sink regular input Source input		
Discrete input voltage	24 V		
Discrete input voltage type	DC		
Voltage state 1 guaranteed	>= 15 V fast input >= 15 V fast output >= 15 V regular input		
Voltage state 0 guaranteed	<= 5 V fast input <= 5 V fast output <= 5 V regular input		
Discrete input current	4 mA fast input 4 mA regular input		
Input impedance	6 kOhm fast input 6 kOhm regular input		
Configurable filtering time	0 ms fast input/regular input and fast output 1.5 ms fast input/regular input and fast output 12 ms fast input/regular input and fast output 4 ms fast input/regular input and fast output		
Anti bounce filtering	2 μs4 ms configurable fast input/regular input and fast output		
Maximum cable distance between devices	<98.4 ft (30 m) fast input <98.4 ft (30 m) fast output <98.4 ft (30 m) regular input		
Isolation between channels and internal logic	500 Vrms AC		
Isolation between channels	None		
Discrete output logic	Source		

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Discrete output voltage	24 V DC		
Output voltage limits	19.228.8 V		
Discrete output current	4 mA fast output		
[Us] rated supply voltage	24 V DC embedded expert modules power 24 V DC I/O power segment 24 V DC main supply		
Supply voltage limits	20.428.8 V		
Line Rated Current	0.04 A embedded expert modules power 0.25 A main supply 10 A I/O power segment		
Peak current	100 kA <= 70 s)main supply 25 kA <= 500 s)l/O power segment 50 kA <= 150 s)embedded expert modules power 1.2 A > 70 s)main supply		
Power Consumption in W	13.03 W		
Memory description	Flash 128 MB Internal RAM 64 MB		
Realtime clock	Without any user calibration clock, clock drift < 30 s/month at 77 °F (25 °C) With user calibration clock, clock drift <= 6 s/month		
Data backed up	Variables of type retain and retain persistent CR2477M Renata, 1.5 years		
Integrated connection type	1 isolated serial link female RJ45 Modbus master/slave RTU/ASCII or character mode ASCII RS232/RS485 300115200 bps 1 isolated serial link female RJ45 Ethernet Modbus TCP/IP slave 10BASE-T/ 100BASE-TX 1 isolated serial link mini B USB 480 Mbit/s 1 isolated serial link USB type A 480 Mbit/s		
Counting input number	8 200 kHz		
Local signalling	1 LED per channel I/O state 1 LED CAN0 STS 1 LED MBS COM 1 LED green/red APP0 1 LED green/red APP1 1 LED green/red Eth NS (Ethernet network status) 1 LED green/red Eth ST (Ethernet status) 1 LED green/red RUN/MS (module status) 1 LED green/red USB host 1 LED green/yellow Eth LA (Ethernet activity) 1 LED red BATT (battery status)		
Marking	CE		
Mounting Support	Symmetrical DIN rail		
Width	6.9 in (175 mm)		
Height	3.9 in (99 mm)		
Depth	3.3 in (85 mm)		
Net Weight	1.1 lb(US) (0.5 kg)		
Environment			
Standards	CSA C22.2 No 142 UL 508 IEC 61131-2 CSA C22.2 No 213		
Product Certifications	C-tick CSA cULus GOST-R		
Ambient air temperature for operation	32131 °F (055 °C) without derating horizontal installation) 32140 °F (060 °C) with derating factor horizontal installation) 32122 °F (050 °C) vertical installation)		

Ambient Air Temperature for Storage	-13158 °F (-2570 °C)			
Relative humidity	595 % without condensation			
IP degree of protection	IP20IEC 61131-2			
Pollution degree	2 IEC 60664			
Operating altitude	06561.68 ft (02000 m)			
Storage altitude	09842.5 ft (03000 m)			
Vibration resistance	1 gn 8.4150 Hz DIN rail 3.5 mm 58.4 Hz DIN rail			
Shock resistance	15 gn 11 ms			
Resistance to electrostatic discharge	4 kV on contact IEC 61000-4-2 8 kV in air IEC 61000-4-2			
Resistance to electromagnetic fields	0.9 V/m (1 V/m) 22.7 GHz IEC 61000-4-3 9.1 V/m (10 V/m) 802000 MHz IEC 61000-4-3			
Resistance to fast transients	1 kV IEC 61000-4-4 I/O) 1 kV IEC 61000-4-4 shielded cable) 2 kV IEC 61000-4-4 power lines)			
Surge withstand	0.5 kV differential mode IEC 61000-4-5 1 kV common mode IEC 61000-4-5			
Disturbance radiated/conducted	CISPR 11			

Ordering and shipping details

Category	US1PC1222532		
Discount Schedule	PC12		
GTIN	3595864074191		
Returnability	No		
Country of origin	AT		

Packing Units

Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Height	5.12 in (13.000 cm)		
Package 1 Width	6.10 in (15.500 cm)		
Package 1 Length	12.40 in (31.500 cm)		
Package 1 Weight	27.266 oz (773.000 g)		
Unit Type of Package 2	S04		
Number of Units in Package 2	6		
Package 2 Height	11.81 in (30.000 cm)		
Package 2 Width	15.75 in (40.000 cm)		
Package 2 Length	23.62 in (60.000 cm)		
Package 2 Weight	12.200 lb(US) (5.534 kg)		

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Again

○ Repack and remanufacture				
Take-back	No			
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.			

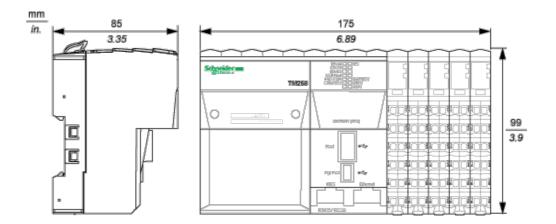
Product data sheet

TM258LD42DT

Dimensions Drawings

Controller

Dimensions



Product data sheet

TM258LD42DT

Connections and Schema

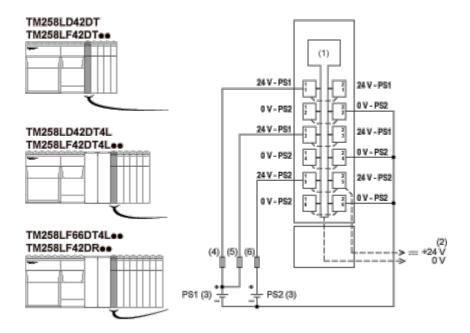
TM5 System Wiring Recommendations

Wire Sizes to Use with Removable Spring Terminal Blocks

mm in.	0.35		=		8D -
	mm^2	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
	AWG	2814	24 14	2416	2 x 242 x 18

External Power Supplies

Wiring Diagram of the Controller Power Distribution Module



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) PS1/PS2: External isolated SELV power supply 24 Vdc
- (4) External fuse, Type T slow-blow, 3 A 250 V
- (5) External fuse, Type T slow-blow, 2 A 250 V
- (6) External fuse, Type T slow-blow, 10 A max., 250 V