

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

TM258LD42DT

Product availability: Stock - Normally stocked in distribution facility

Price*: 1,955.00 USD

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

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Discrete Input Number	10 fast input		
	12 input		
	4 regular input		
	Togala 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		
2.00.000 input current	4 mA regular input		
	4 mA regular input		
Input Impedance	6 kOhm fast input		
	6 kOhm regular input		
Configurable Filtering Time			
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	<98.43 ft (30 m) fast input		
Between Devices	<98.43 ft (30 m) fast output		
	<98.43 ft (30 m) regular input		
	190.43 it (30 iii) regular iiiput		
Isolation Between Channels And Internal Logic	500 Vrms AC		
Isolation Between Channels	None		
Discrete Output Logic	Source		
Discrete Output Voltage	24 V DC		

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

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)I/O power segment 50 kA <= 150 s)embedded expert modules power 1.2 A > 70 s)main supply			
Maximum 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 $^{\circ}$ F (25 $^{\circ}$ 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/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	6.89 in (175 mm)			
Height	3.90 in (99 mm)			
Depth	3.35 in (85 mm)			
Net Weight	1.10 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	0.009842.52 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	0.91 V/m (1 V/m) 22.7 GHz IEC 61000-4-3 9.14 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	27.02 oz (766.000 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	12.20 lb(US) (5.534 kg)		

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >

Well-being performance

Toxic Heavy Metal Free			
Mercury Free			
Rohs Exemption Information	Yes		
Pvc Free			
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.		
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		

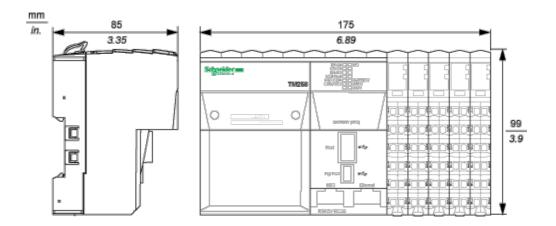
Product data sheet

TM258LD42DT

Dimensions Drawings

Controller

Dimensions



Product data sheet

TM258LD42DT

Connections and Schema

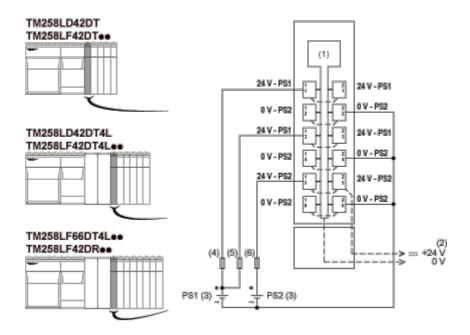
TM5 System Wiring Recommendations

Wire Sizes to Use with Removable Spring Terminal Blocks

mm lin.	0.35		=		
	mm²	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