

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

TM258LF42DT

Product availability: Stock - Normally stocked in distribution facility

Price\*: 2,215.00 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

Discrete Input Number	10 fast input			
·	12 input			
	·			
	4 regular input			
Discrete Input Logic	Sink fast input			
	Sink regular input			
	Source 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			
	- Thirtiogalai inpat			
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	<98.43 ft (30 m) fast input			
Between Devices	<98.43 ft (30 m) fast output			
	<98.43 ft (30 m) regular input			
Indiation Potuson Channels And	500 / 40			
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 10 A I/O power segment 0.26 A main supply					
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					
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 1 CANopen male SUB-D 9 CANopen master					
Transmission Rate	125 kbit/s 1640.42 ft (500 m) CANopen 250 kbit/s 820.21 ft (250 m) CANopen 50 kbit/s 3280.84 ft (1000 m) CANopen 500 kbit/s 328.08 ft (100 m) CANopen 10 kbit/s 16404.20 ft (5000 m) CANopen 1000 kbit/s 13.12 ft (4 m) CANopen 20 kbit/s 8202.10 ft (2500 m) CANopen 800 kbit/s 82.02 ft (25 m) CANopen					
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	6.89 in (175 mm)					
Height	3.90 in (99 mm)					
Depth	3.35 in (85 mm)					
Net Weight	1.21 lb(US) (0.55 kg)					

## **Environment**

Standards	UL 508 CSA C22.2 No 142 IEC 61131-2 CSA C22.2 No 213				
Product Certifications	GOST-R cULus C-tick CSA				
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 -13158 °F (-2570 °C) Storage					
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 4 kV on contact IEC 61000-4-2 Discharge 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	3595864074313		
Returnability	No		
Country Of Origin	FR		

# **Packing Units**

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	5.28 in (13.400 cm)	
Package 1 Width	6.30 in (16.000 cm)	
Package 1 Length	12.40 in (31.500 cm)	
Package 1 Weight	27.55 oz (781.000 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	12.28 lb(US) (5.570 kg)

## **Contractual warranty**

Warranty 18 months

### Sustainability

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >

### Well-being performance

	Toxic Heavy Metal Free				
<b>⊘</b>	Mercury Free				
Rohs Exemption Information		Yes			
Pvc Free					
Reach Regulation		REACh Declaration			
Eu f	Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
Chir	na Rohs Regulation	China RoHS declaration			
Weee		The product must be disposed on European Union markets following specific wast 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

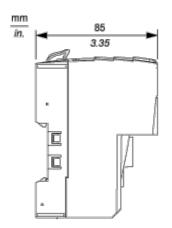
## **Product data sheet**

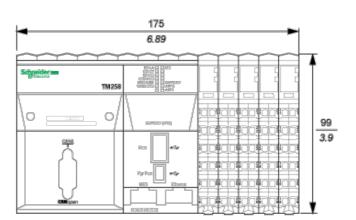
### TM258LF42DT

### **Dimensions Drawings**

### Controller

#### **Dimensions**





## **Product data sheet**

## TM258LF42DT

Connections and Schema

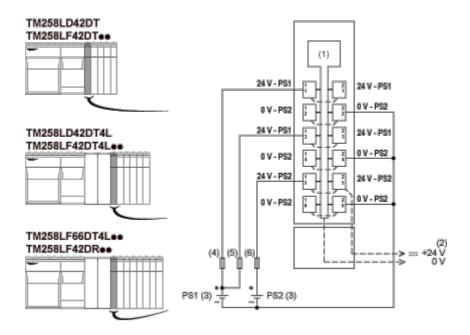
#### TM5 System Wiring Recommendations

#### Wire Sizes to Use with Removable Spring Terminal Blocks

mm ân.	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