

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 519.00 USD



Main

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|---------------------------|------------------|
| Range of Product | Modicon M251 |
| Product or Component Type | Logic controller |
| [Us] rated supply voltage | 24 V DC |

Complementary

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| Maximum number of I/O expansion module | 7 local 14 remote |
| Supply voltage limits | 20.4...28.8 V |
| Inrush current | 50 A |
| Power consumption in W | 32.6...40.4 W with max number of I/O expansion module) |
| Memory capacity | 8 MB program 64 MB system memory RAM |
| Data backed up | 128 MB built-in flash memory backup of user programs |
| Data storage equipment | <= 16 GB SD card optional) |
| Battery type | BR2032 lithium non-rechargeable 4 year(s) |
| Backup time | 2 years 77 °F (25 °C) |
| Execution time for 1 KInstruction | 0.3 Ms event and periodic task 0.7 Ms other instruction |
| Execution time per instruction | 0.022 µs |
| Application structure | 4 cyclic master tasks 8 event tasks 3 cyclic master tasks + 1 freewheeling task 8 external event tasks |
| Realtime clock | With |
| Clock drift | <= 60 s/month 77 °F (25 °C) |
| Integrated connection type | USB port with mini B USB 2.0 connector Non isolated serial link serial RJ45 RS232/RS485 Dual-port Ethernet 1 RJ45 Ethernet port Ethernet 2 RJ45 |
| Supply | Serial)Serial link supply 5 V, <200 mA |
| Transmission rate | 1.2...115.2 kbit/s (115.2 kbit/s by default) 49.21 ft (15 m) RS485 1.2...115.2 kbit/s (115.2 kbit/s by default) 9.84 ft (3 m) RS232 480 Mbit/s 9.84 ft (3 m) USB |

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| Communication port protocol | USB port: USB - SoMachine-Network Non isolated serial link: Modbus master/slave - RTU/ASCII or SoMachine-Network |
| Port Ethernet | Ethernet 1 10BASE-T/100BASE-TX - 2 copper cable Ethernet 2 10BASE-T/100BASE-TX - 1 copper cable |
| Web services | Web server |
| Communication service | Downloading IEC VAR ACCESS Modbus TCP client Modbus TCP server Modbus TCP slave device Monitoring NGVL Programming Updating firmware SMS notifications DHCP client Eth1) DHCP server Eth2) Ethernet/IP originator Eth2) Ethernet/IP target Eth1, Eth2) Ethernet/IP scanner Eth2) Modbus TCP I/O Scanner and Messaging Eth2) FDR FTP client/server SNMP client/server SQL client Send and receive email from the controller based on TCP/UDP library Web server (WebVisu & XWeb system) OPC UA server DNS client |
| Maximum number of connections | 8 Modbus server 8 Modbus client 16 Ethernet/IP target 4 FTP server 10 web server 8 SoMachine protocol |
| Number of slave | 16 EtherNet/IP 64 Modbus TCP |
| Cycle time | 10 Ms 16 EtherNet/IP 64 Ms 64 Modbus TCP |
| Local signalling | 1 LED (green) for PWR 1 LED (green) for RUN 1 LED (red) for module error (ERR) For I/O error (I/O) 1 LED (red) 1 LED (green) for SD card access (SD) For BAT 1 LED (red) For SL 1 LED (green) For bus fault on TM4 (TM4) 1 LED (red) For Ethernet activity (ETH1) 1 LED (green) for Ethernet activity (ETH2) 1 LED (green) |
| Electrical connection | Removable screw terminal block power supply pitch 5.08 mm) |
| Insulation | Non-insulated between supply and internal logic Between supply and ground 500 V AC |
| Marking | CE |
| Surge withstand | 1 KV shielded cable common mode EN/IEC 61000-4-5 1 KV power lines common mode EN/IEC 61000-4-5 0.5 KV power lines differential mode EN/IEC 61000-4-5 |
| Mounting support | Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail IEC 60715 plate or panel with fixing kit |
| Maximum Height | 3.54 In (90 mm) |
| Maximum Depth | 3.74 In (95 mm) |
| Maximum Width | 2.13 In (54 mm) |
| Net Weight | 0.49 Lb(US) (0.22 kg) |

Environment

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|---------------------------------------|---|
| Standards | ANSI/ISA 12-12-01 CSA C22.2 No 142 CSA C22.2 No 213 EN/IEC 61131-2:2007 Marine specification (LR, ABS, DNV, GL) UL 1604 UL 508 |
| Product Certifications | CULus CSA |
| Resistance to electrostatic discharge | 8 KV in air EN/IEC 61000-4-2 4 KV on contact EN/IEC 61000-4-2 |
| Resistance to electromagnetic fields | 9.14 V/M (10 V/m) 80 MHz...1 GHz EN/IEC 61000-4-3 2.74 V/M (3 V/m) 1.4 GHz...2 GHz EN/IEC 61000-4-3 0.91 V/M (1 V/m) 2 GHz...3 GHz EN/IEC 61000-4-3 |
| Resistance to fast transients | 2 KV EN/IEC 61000-4-4 power lines) 1 KV EN/IEC 61000-4-4 Ethernet line) 1 KV EN/IEC 61000-4-4 serial link) |
| Resistance to conducted disturbances | 10 V 0.15...80 MHz EN/IEC 61000-4-6 3 V 0.1...80 MHz Marine specification (LR, ABS, DNV, GL) 10 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) Marine specification (LR, ABS, DNV, GL) |
| Electromagnetic emission | Conducted emissions 120...69 dB μ V/m QP power lines)10...150 kHz EN/IEC 55011 Conducted emissions 63 dB μ V/m QP power lines)1.5...30 MHz EN/IEC 55011 Radiated emissions 40 dB μ V/m QP class A 10 m)30...230 MHz EN/IEC 55011 Conducted emissions 79...63 dB μ V/m QP power lines)150...1500 kHz EN/IEC 55011 Radiated emissions 47 dB μ V/m QP class A 10 m)230...1000 MHz EN/IEC 55011 |
| Immunity to microbreaks | 10 Ms |
| Ambient air temperature for operation | 14...95 °F (-10...35 °C) vertical installation) 14...131 °F (-10...55 °C) horizontal installation) |
| Ambient Air Temperature for Storage | -13...158 °F (-25...70 °C) |
| Relative humidity | 10...95 %, without condensation in operation) 10...95 %, without condensation in storage) |
| IP degree of protection | IP20 with protective cover in place |
| Pollution degree | 2 |
| Operating altitude | 0...6561.68 ft (0...2000 m) |
| Storage altitude | 0.00...9842.52 Ft (0...3000 m) |
| Vibration resistance | 3.5 mm 5...8.4 Hz symmetrical rail 3 gn 8.4...150 Hz symmetrical rail 3.5 mm 5...8.4 Hz panel mounting 3 gn 8.4...150 Hz panel mounting |
| Shock resistance | 15 gn 11 ms |

Ordering and shipping details

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|-----------------------|--------------------------------|
| Category | 22533 - M2XX PLC & ACCESSORIES |
| Discount Schedule | MSX |
| GTIN | 03606480648878 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1 Lb(US) (0.45 kg) |
| Returnability | Yes |
| Country of origin | ID |

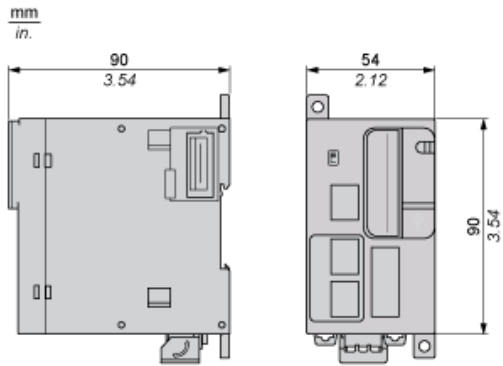
Packing Units

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|------------------------|---------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 4.14 In (10.511 cm) |
| Package 1 width | 4.62 In (11.725 cm) |
| Package 1 Length | 6.72 In (17.063 cm) |

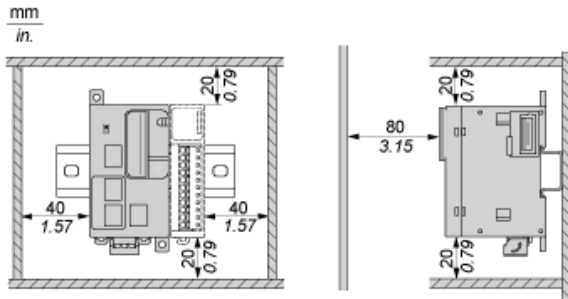
Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| 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 |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| PVC free | Yes |

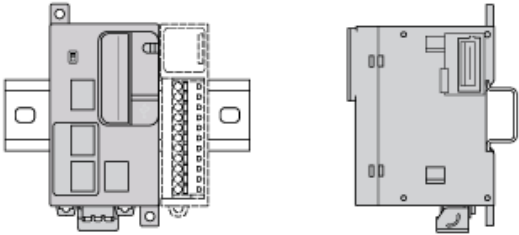
Dimensions



Clearance

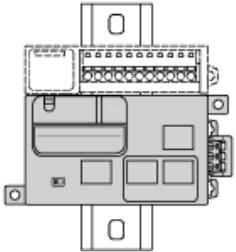


Mounting Position



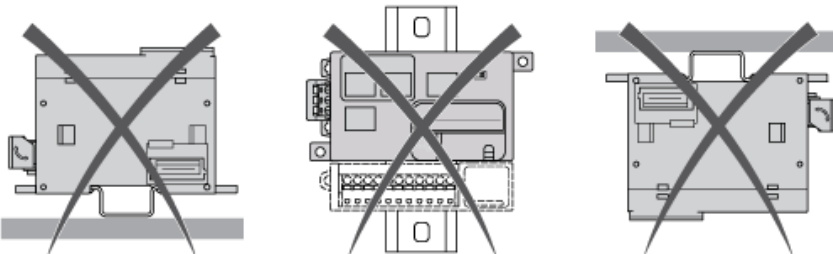
NOTE: Keep adequate spacing for proper ventilation and to maintain an ambient temperature between -10°C (14°F) and 55°C (131°F).

Acceptable Mounting



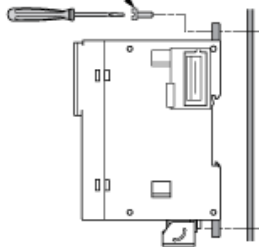
NOTE: Expansion modules must be mounted above the controller.

Incorrect Mounting

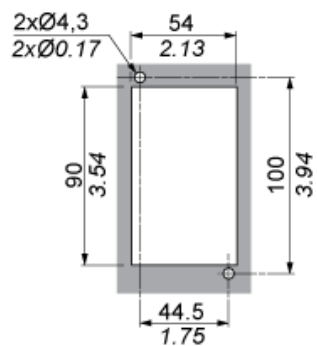


Direct Mounting on a Panel Surface

M4 x 6/8 mm
0.24/0.31 in.



mm
in.



USB Connection to a PC



Ethernet Connection to a PC



Product Life Status : **Commercialised**