



### Main

|                              |                            |
|------------------------------|----------------------------|
| Range of product             | Modicon M258               |
| Product or component type    | Logic controller           |
| Product specific application | -                          |
| Discrete I/O number          | 42                         |
| Analogue input number        | 4                          |
| Discrete output number       | 12 output<br>4 fast output |

### Complementary

|   |   |
|---|---|
| Discrete input number                         | 10 fast input<br>12 input<br>4 regular input  |
| Discrete input logic                          | Sink fast input<br>Sink regular input<br>Source input   |
| Discrete input voltage                        | 24 V  |
| Discrete input voltage type                   | DC  |
| Analogue input type                           | Current 0...20 mA<br>Current 4...20 mA<br>Voltage +/- 10 V  |
| Analogue input resolution                     | 12 bits   |
| Voltage state 1 guaranteed                    | >= 15 Vfor fast input<br>>= 15 Vfor fast output<br>>= 15 Vfor regular input   |
| Voltage state 0 guaranteed                    | <= 5 Vfor fast input<br><= 5 Vfor fast output<br><= 5 Vfor regular input  |
| Discrete input current                        | 4 mAfor fast input<br>4 mAfor regular input   |
| Input impedance                               | 6 kOhm fast input<br>6 kOhm regular input   |
| Configurable filtering time                   | 0 ms fast input/regular input and fast output<br>1.5 ms fast input/regular input and fast output<br>12 ms fast input/regular input and fast output<br>4 ms fast input/regular input and fast output |
| Anti bounce filtering                         | 2 µs...4 ms (configurable) fast input/regular input and fast output   |
| Cable distance between devices                | 30 m for fast input<br>30 m for fast output<br>30 m for regular input   |
| Isolation between channels and internal logic | 500 Vrms AC   |
| Isolation between channels                    | None  |
| Discrete output logic                         | Source  |
| Discrete output voltage                       | 24 V DC   |
| Output voltage limits                         | 19.2...28.8 V   |
| Discrete output current                       | 4 mAfor fast output   |
| [Us] rated supply voltage                     | 24 V DC embedded expert modules power<br>24 V DC I/O power segment<br>24 V DC main supply   |
| Supply voltage limits                         | 20.4...28.8 V   |
| [In] rated current                            | 0.04 Afor embedded expert modules power<br>0.31 Afor main supply  |

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|                                |  |
|--------------------------------|--|
|                                | 10 A for I/O power segment   |
| Peak current                   | <= 100 kA during <= 70 s main supply<br><= 25 kA during <= 500 s I/O power segment<br><= 50 kA during <= 150 s embedded expert modules power<br>1.2 A during > 70 s main supply  |
| Power consumption in W         | <= 14.14 W   |
| Execution time per instruction | 22 ns : Boolean  |
| Memory description             | Flash 128 MB<br>Internal RAM 64 MB   |
| Realtime clock                 | With user calibration realtime clock, drift: <= 6 s/month<br>Without any user calibration realtime clock, drift: < 30 s/month at 77 °F (25 °C)   |
| Data backed up                 | Variables of type retain and retain persistent CR2477M Renata, 1.5 years autonomy  |
| Integrated connection type     | 1 CANopen male SUB-D 9, CANopen master<br>1 isolated serial link female RJ45, Ethernet Modbus TCP/IP slave (10BASE-T/100BASE-TX)<br>2 free slots PCI<br>1 isolated serial link female RJ45, Modbus master/slave RTU/ASCII or character mode ASCII (RS232/RS485), 300...115200 bps<br>1 isolated serial link mini B USB, 480 Mbit/s<br>1 isolated serial link USB type A, 480 Mbit/s  |
| Transmission rate              | 125 kbit/s for bus length of 1640.42 ft (500 m), CANopen<br>250 kbit/s for bus length of 820.21 ft (250 m), CANopen<br>500 kbit/s for bus length of 3280.84 ft (1000 m), CANopen<br>500 kbit/s for bus length of 328.08 ft (100 m), CANopen<br>10 kbit/s for bus length of 16404.2 ft (5000 m), CANopen<br>1000 kbit/s for bus length of 13.12 ft (4 m), CANopen<br>20 kbit/s for bus length of 8202.1 ft (2500 m), CANopen<br>800 kbit/s for bus length of 82.02 ft (25 m), CANopen |
| Counting input number          | 8 counting input(s) 200 kHz  |
| Local signalling               | 1 LED per channel I/O state<br>1 LED CAN0 STS<br>1 LED MBS COM<br>1 LED green/red APP0<br>1 LED green/red APP1<br>1 LED green/red Eth NS (Ethernet network status)<br>1 LED green/red Eth ST (Ethernet status)<br>1 LED green/red RUN/MS (module status)<br>1 LED green/red USB host<br>1 LED green/yellow Eth LA (Ethernet activity)<br>1 LED red BATT (battery status)   |
| Marking                        | CE   |
| Mounting support               | Symmetrical DIN rail   |
| Width                          | 9.35 in (237.5 mm)   |
| Height                         | 3.9 in (99 mm)   |
| Depth                          | 3.35 in (85 mm)  |
| Product weight                 | 1.7 lb(US) (0.77 kg)   |

## Environment

|                                       |  |
|---------------------------------------|--|
| standards                             | CSA C22.2 No 142<br>IEC 61131-2<br>UL 508<br>CSA C22.2 No 213  |
| product certifications                | CSA<br>C-Tick<br>CULus<br>GOST-R   |
| ambient air temperature for operation | 32...122 °F (0...50 °C) vertical installation<br>32...131 °F (0...55 °C) without derating factor horizontal installation<br>32...140 °F (0...60 °C) with derating factor horizontal installation |
| ambient air temperature for storage   | -13...158 °F (-25...70 °C)   |
| relative humidity                     | 5...95 % without condensation  |
| IP degree of protection               | IP20 conforming to IEC 61131-2   |
| pollution degree                      | 2 conforming to IEC 60664  |
| operating altitude                    | 0...6561.68 ft (0...2000 m)  |
| storage altitude                      | 0...9842.52 ft (0...3000 m)  |
| vibration resistance                  | 1 gn 8.4...150 Hz DIN rail<br>3.5 mm 5...8.4 Hz DIN rail   |

|                                       |  |
|---------------------------------------|--|
| shock resistance                      | 15 gn 11 ms  |
| resistance to electrostatic discharge | 4 kV on contact conforming to EN/IEC 61000-4-2<br>8 kV in air conforming to EN/IEC 61000-4-2   |
| resistance to electromagnetic fields  | 0.91 V/yd (1 V/m) 2...2.7 GHz conforming to EN/IEC 61000-4-3<br>9.14 V/yd (10 V/m) 80...2000 MHz conforming to EN/IEC 61000-4-3                  |
| resistance to fast transients         | 1 kV I/O conforming to EN/IEC 61000-4-4<br>1 kV shielded cable conforming to EN/IEC 61000-4-4<br>2 kV power lines conforming to EN/IEC 61000-4-4 |
| surge withstand                       | 0.5 kV differential mode conforming to EN/IEC 61000-4-5<br>1 kV common mode conforming to EN/IEC 61000-4-5                                       |
| disturbance radiated/conducted        | CISPR 11   |

## Offer Sustainability

|  |  |
|--|--|
| Green Premium product  | Green Premium product  |
| Compliant - since 1039 - Schneider Electric declaration of conformity  | Compliant - since 1039 - Schneider Electric declaration of conformity  |
| Reference not containing SVHC above the threshold  | Reference not containing SVHC above the threshold  |
| Available  | Available  |
| Available  | Available  |
| WARNING: This product can expose you to chemicals including:   | 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. | 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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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