

Product data sheet

Specifications



network switch module, Modicon M241, 1 Profibus DP slave

TM4PDPS1

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

Main

| | |
|---------------------------|----------------------------------|
| Product or Component Type | Profibus DP communication module |
|---------------------------|----------------------------------|

Complementary

| | |
|-----------------------------|---|
| Range Compatibility | Modicon M251 Modicon M241 |
| Product compatibility | Modicon M241 logic controller Modicon M251 logic controller |
| Current consumption | 290 mA 5 V DC communication bus |
| Power dissipation in W | 1.5 W |
| Integrated connection type | Profibus DP female SUB-D 9 |
| Transmission rate | 1.5 Mbit/s 656.2 ft (200 m) 500 kbit/s 1312.3 ft (400 m) 187.5 kbit/s 3280.8 ft (1000 m) 9.6...93.75 kbit/s 3937.008 ft (1200 m) 3...12 Mbit/s 328.08 ft (100 m) |
| Communication Port Protocol | Profibus DP V0 Profibus DP V1 |
| Insulation | Between bus and internal logic 1000 V DC |
| Local signalling | 1 LED (green/yellow) for power supply 1 LED (green/red) for communication |
| Electrical connection | Screw connector terminal for connecting the functional ground SUB-D 9 1 female connector for connecting Profibus |
| Marking | CE |
| Surge withstand | 1 kV power lines (DC) common mode IEC 61000-4-5 2 kV power lines (AC) common mode IEC 61000-4-5 2 kV relay output common mode IEC 61000-4-5 1 kV I/O common mode IEC 61000-4-5 1 kV shielded cable common mode IEC 61000-4-5 0.5 kV power lines (DC) differential mode IEC 61000-4-5 1 kV power lines (AC) differential mode IEC 61000-4-5 1 kV relay output differential mode IEC 61000-4-5 0.5 kV I/O differential mode IEC 61000-4-5 |
| Mounting support | Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 plate or panel with fixing kit |
| Width | 1.0 in (25 mm) |
| Height | 3.5 in (90 mm) |
| Depth | 3.5 in (90 mm) |
| Net Weight | 0.2 lb(US) (0.1 kg) |

Environment

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---------------------------------------|--|
| Standards | IEC 61131-2 UL 508 EIA-485 |
| Product Certifications | C-tick cULus |
| Resistance to electrostatic discharge | 8 kV in air IEC 61000-4-2 4 kV on contact IEC 61000-4-2 8 kV in air Marine specification (LR, ABS, DNV, GL) 6 kV on contact Marine specification (LR, ABS, DNV, GL) |
| Resistance to electromagnetic fields | 9.1 V/m (10 V/m) 80 MHz...1 GHz IEC 61000-4-3 2.7 V/m (3 V/m) 1.4 GHz...2 GHz IEC 61000-4-3 0.9 V/m (1 V/m) 2...2.7 GHz IEC 61000-4-3 |
| Resistance to fast transients | 2 kV IEC 61000-4-4 power lines) 2 kV IEC 61000-4-4 relay output) 1.5 kV IEC 61000-4-4 I/O) 1 kV IEC 61000-4-4 Ethernet line) 1 kV IEC 61000-4-4 serial link) |
| Resistance to conducted disturbances | 10 V 0.15...80 MHz 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 79 dBµV/m QP/66 dBµV/m AV power lines (AC))0.15...0.5 MHz IEC 55011 Conducted emissions 73 dBµV/m QP/60 dBµV/m AV power lines (AC))0.5...300 MHz IEC 55011 Conducted emissions 120...69 dBµV/m QP power lines)10...150 kHz IEC 55011 Conducted emissions 63 dBµV/m QP power lines)1.5...30 MHz IEC 55011 Radiated emissions 40 dBµV/m QP class A30...230 MHz IEC 55011 Radiated emissions 60...54 dBµV/m QP30...100 MHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 24 dBµV/m QP156...165 MHz Marine specification (LR, ABS, DNV, GL) Conducted emissions 79...63 dBµV/m QP power lines)150...1500 kHz IEC 55011 Radiated emissions 47 dBµV/m QP class A230...1000 MHz IEC 55011 Radiated emissions 80...50 dµV/m QP150...30000 kHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 54 dBµV/m QP100...2000 MHz Marine specification (LR, ABS, DNV, GL) |
| Ambient Air Temperature for Operation | 14...131 °F (-10...55 °C) horizontal installation 14...122 °F (-10...50 °C) vertical 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...9842.5 ft (0...3000 m) |
| Vibration resistance | 1 mm 5...13.2 Hz symmetrical rail 3 gn 8.7...150 Hz symmetrical rail 1 mm 5...13.2 Hz panel mounting 0.7 gn 13.2...100 Hz panel mounting |
| Shock resistance | 15 gn 11 ms |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US10MSX22533 |
| Discount Schedule | 0MSX |
| GTIN | 3606480649066 |
| Returnability | No |

| | |
|-------------------|----|
| Country of origin | ID |
|-------------------|----|

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.20 in (5.600 cm) |
| Package 1 Width | 4.53 in (11.500 cm) |
| Package 1 Length | 6.69 in (17.000 cm) |
| Package 1 Weight | 6.702 oz (190.000 g) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 20 |
| Package 2 Height | 11.81 in (30.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 9.872 lb(US) (4.478 kg) |



Environmental Data

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 >](#)

| Environmental footprint | |
|--|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 96 |
| Environmental Disclosure | Product Environmental Profile |

Use Better

| Materials and Substances | |
|--|---|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| SCIP Number | 253016c1-904d-4e0e-b7bd-38e34c360f7a |
| 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 | |
|--------------------------|--|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |