

Product data sheet

Specifications



Unity processor - 8 racks (12 slots) / 16 racks (4/6/8 slots) - 1180 mA, 5 V DC

TSXP57304M

! Discontinued on: 31 December 2018

! To be end-of-service on: 31 December 2026

! Discontinued - Service only

Main

| | |
|---------------------------|-------------------------------------|
| Range of product | Modicon Premium Automation platform |
| Product or component type | Unity processor |
| Software designation | Unity Pro |

Complementary

| | |
|---|---|
| Number of racks | 16 4/6/8 slots 8 12 slots |
| Number of slots | 64 96 128 |
| Discrete I/O processor capacity | 1024 I/O |
| Analogue I/O processor capacity | 128 I/O |
| Number of application specific channel | 32 |
| Number of process control channel | 15 up to 45 simple loops |
| Integrated connection type | Non isolated serial link 2 female mini DIN connector (RS485) (19.2/115 kbit/s) |
| Communication module processor capacity | 1 3 8 |
| Memory description | Internal RAM (with PCMCIA card) 1792 kB program Internal RAM (with PCMCIA card) 192 kB data Internal RAM (without PCMCIA card) 192 kB program and data PCMCIA card 16384 kB additional data storage |
| Maximum size of object areas | 16384 %Mi located internal bits 64 %KWi constant words located internal data 64 %MWi internal words located internal data 64 kB (DFB and EFB function blocks) unlocated internal data 64 kB (elementary and derived data) unlocated internal data |
| Application structure | 1 master task 1 fast task 64 event tasks |
| Execution time per instruction | 0.12 µs Boolean without PCMCIA card 0.17 µs Boolean with PCMCIA card 0.17 µs word or fixed-point arithmetic without PCMCIA card 0.32 µs word or fixed-point arithmetic with PCMCIA card 1.75...3 µs floating points with PCMCIA card 1.75...3 µs floating points without PCMCIA card |
| Number of instructions per ms | 3.11 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card 4.59 Kinst/ms 100 % Boolean with PCMCIA card |

5.11 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card
6.72 Kinst/ms 100 % Boolean without PCMCIA card

| | |
|----------------------------|--|
| System overhead | 0.35 ms for fast task 1 ms for master task |
| Marking | CE |
| Local signalling | 1 LED (green) for processor running (RUN) 1 LED (red) for I/O module or configuration fault (I/O) 1 LED (red) for processor or system fault (ERR) 1 LED (yellow) for activity on TER or AUX terminal port (TER) |
| Current consumption | 1100 mA at 5 V DC |
| Module format | Double |
| Net weight | 0.52 kg |

Environment

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|--|--|
| Standards | CSA C22.2 No 142 CSA C22.2 No 213 Class I Division 2 Group D CSA C22.2 No 213 Class I Division 2 Group B 92/31/EEC 89/336/EEC CSA C22.2 No 213 Class I Division 2 Group A IEC 61131-2 CSA C22.2 No 213 Class I Division 2 Group C 73/23/EEC 93/68/EEC UL 508 |
| Product certifications | BV LR RMRS ABS RINA DNV GL |
| Ambient air temperature for operation | 0...60 °C |
| Ambient air temperature for storage | -25...70 °C |
| Relative humidity | 10...95 % without condensation for operation 5...95 % without condensation for storage |
| Operating altitude | 0...2000 m |
| Protective treatment | TC |
| IP degree of protection | IP20 |
| Pollution degree | 2 |

Packing Units

| | |
|-------------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 9.5 cm |
| Package 1 Width | 18.0 cm |
| Package 1 Length | 26.0 cm |
| Package 1 Weight | 642.0 g |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 40.0 cm |
| Package 2 Length | 60.0 cm |
| Package 2 Weight | 3.852 kg |

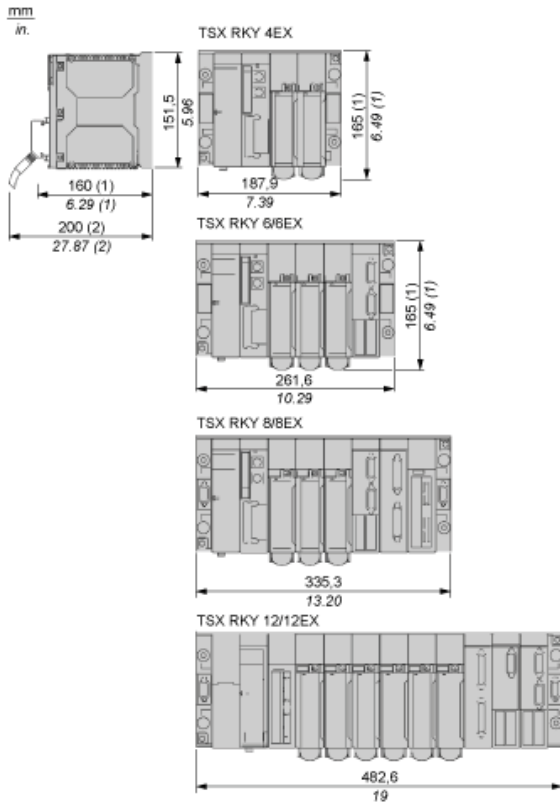
Contractual warranty

Warranty

18 months

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks



- (1) With screw terminal block modules.
- (2) Maximum depth for all types of modules and their associated connectors.

Recommended replacement(s)

TSXP57304M is replaced by:

1x



Standalone processor, Modicon M580, 12MB, 125 Ethernet devices, 8 Local I/O racks (3072 Digital, 768 Analog)

BMEP583020