Product data sheet
Characteristics

TSXP57254M
Unity processor - 8 racks (12 slots) / 16 racks (4/6/8 slots) - 930 mA, 5 V DC

Commercial status

Discontinued: 31 December 2018

⚠ Restricted Sales for Services

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	96 64 128
Discrete I/O processor capacity	1024 I/O
Analogue I/O processor capacity	80 I/O
Number of application specific channel	24
Number of process control channel	10 up to 30 simple loops
Integrated connection type	Non isolated serial link 2 female mini DIN connector (RS485) (19.2 kbit/s) Fipio manager (127 agents) SUB-D 9 connector
Communication module processor capacity	4 1
Memory description	Internal RAM (with PCMCIA card) 192 kB data Internal RAM (with PCMCIA card) 768 kB program Internal RAM (without PCMCIA card) 192 kB program and data PCMCIA card 16384 kB additional data storage
Maximum size of object areas	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 8132 %Mi located internal bits
Application structure	1 master task 1 fast task 64 event tasks
Execution time per instruction	0.19 µs Boolean without PCMCIA card 0.25 µs word or fixed-point arithmetic without PCMCIA card 1.75...2.6 µs floating points with PCMCIA card 1.75...2.6 µs floating points without PCMCIA card 0.21 µs Boolean with PCMCIA card 0.42 µs word or fixed-point arithmetic with PCMCIA card
Number of instructions per ms	2.53 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card 3.7 Kinst/ms 100 % Boolean with PCMCIA card

3.71 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card
4.76 Kinst/ms 100 % Boolean without PCMCIA card

System overhead	0.3 ms for fast task 1 ms for master task
Marking	CE
Local signalling	1 LED (green)processor running (RUN): 1 LED (red)activity on Fipio bus (FIP): 1 LED (red)I/O module or configuration fault (I/O): 1 LED (red)processor or system fault (ERR): 1 LED (yellow)activity on TER or AUX terminal port (TER):
Current consumption	930 mA at 5 V DC
Module format	Double
Net weight	0.628 kg

Environment

Standards	CSA C22.2 No 213 Class I Division 2 Group B 73/23/EEC CSA C22.2 No 142 93/68/EEC CSA C22.2 No 213 Class I Division 2 Group A CSA C22.2 No 213 Class I Division 2 Group D 92/31/EEC 89/336/EEC UL 508 CSA C22.2 No 213 Class I Division 2 Group C IEC 61131-2
Product certifications	GL ABS BV LR RINA RMRS DNV
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

Contractual warranty

Warranty	18 months

TSXP57254M is replaced by:

Standard environment BMEP582020

processor module M580 - Level 2 - Distributed

Qty 1

Reason for Substitution: End of life | Substitution date: 31 December 2018

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