

Product data sheet

Characteristics

TSXP57454M

Unity processor - 8 racks (12 slots) / 16 racks (4/6/8 slots) - 1680 mA, 5 V DC

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



Commercial status

Discontinued on: 02 December 2020

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

ⓘ 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	64 96 128
Discrete I/O processor capacity	2040 I/O
Analogue I/O processor capacity	256 I/O
Number of application specific channel	64
Number of process control channel	20 up to 60 simple loops
Integrated connection type	Non isolated serial link female mini DIN RS485)19.2 kbit/s) Fipio manager (127 agents) SUB-D 9 USB port12 Mbit/s)
Communication module processor capacity	4 1 8
Memory description	Internal RAM (with PCMCIA card) 2048 kB program Internal RAM (with PCMCIA card) 440 kB data Internal RAM (without PCMCIA card) 440 kB program and data PCMCIA card 16384 kB additional data storage
Maximum size of object areas	32768 %Mi located internal bits 64 %KWi constant words located internal data 64 %MWi internal words located internal data Unlimited (DFB and EFB function blocks) unlocated internal data Unlimited (elementary and derived data) unlocated internal data
Application structure	64 event tasks 1 master task 1 fast task
Execution time per instruction	0.039...0.057 µs Boolean without PCMCIA card 0.048...0.057 µs Boolean with PCMCIA card 0.054...0.073 µs word or fixed-point arithmetic with PCMCIA card 0.054...0.073 µs word or fixed-point arithmetic without PCMCIA card

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

	0.55...0.63 μ s floating points with PCMCIA card 0.55...0.63 μ s floating points without PCMCIA card
Number of instructions per ms	11.4 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card 11.4 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card 15.75 Kinst/ms 100 % Boolean with PCMCIA card 15.75 Kinst/ms 100 % Boolean without PCMCIA card
System overhead	0.08 ms fast task 1 ms master task
Marking	CE
Local signalling	for processor running (RUN) 1 LED (green) for activity on Fipio bus (FIP) 1 LED (red) for I/O module or configuration fault (I/O) 1 LED (red) for processor or system fault (ERR) 1 LED (red) for activity on TER or AUX terminal port (TER) 1 LED (yellow)
Current consumption	1680 mA 5 V DC
Module format	Double
Net Weight	1.23 lb(US) (0.56 kg)

Environment

Standards	93/68/EEC 73/23/EEC 89/336/EEC CSA C22.2 No 142 IEC 61131-2 CSA C22.2 No 213 Class I Division 2 Group C 92/31/EEC UL 508 CSA C22.2 No 213 Class I Division 2 Group B CSA C22.2 No 213 Class I Division 2 Group A CSA C22.2 No 213 Class I Division 2 Group D
Product certifications	RMRS ABS LR DNV BV GL RINA
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Relative humidity	10...95 % without condensation for operation 5...95 % without condensation for storage
Operating altitude	0...6561.68 ft (0...2000 m)
Protective treatment	TC
IP degree of protection	IP20
Pollution degree	2

Ordering and shipping details

Category	22558 - TSX PREMIUM, ATRIUM & PL7 PRO
Discount Schedule	PC22
GTIN	00785901633662
Nbr. of units in pkg.	1
Package weight(Lbs)	2.2 lb(US) (1.00 kg)
Returnability	No
Country of origin	FR

Packing Units

Package 1 Height	3.74 in (95.000 mm)
Package 1 width	7.09 in (180.000 mm)
Package 1 Length	10.24 in (260.000 mm)

Contractual warranty

Warranty	18 months
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TSXP57454M is replaced by:



Standard environment BMEP583020

processor module M580 - Level 3 - Distributed

Qty 1

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