

Product datasheet

Specifications



Unity processor, Modicon Premium, Internal RAM 208kB data, Unity Pro

TSXP57354M

⚠ Discontinued on: 31 Dec 2018

⚠ To be end-of-service on: 31 Dec 2026

⚠ Discontinued

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	128
	96
	64
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) Fipio manager (127 agents) SUB-D 9 connector
Communication module processor capacity	1
	3
	8
Memory description	Internal RAM (with PCMCIA card) 1792 kB program Internal RAM (with PCMCIA card) 208 kB data Internal RAM (without PCMCIA card) 208 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 fast task 1 master 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

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

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 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 (yellow) for activity on TER or AUX terminal port (TER)
Current consumption	1180 mA at 5 V DC
Module format	Double
Net weight	0.56 kg

Environment

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

Contractual warranty

Warranty (in months)	18
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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 >](#)

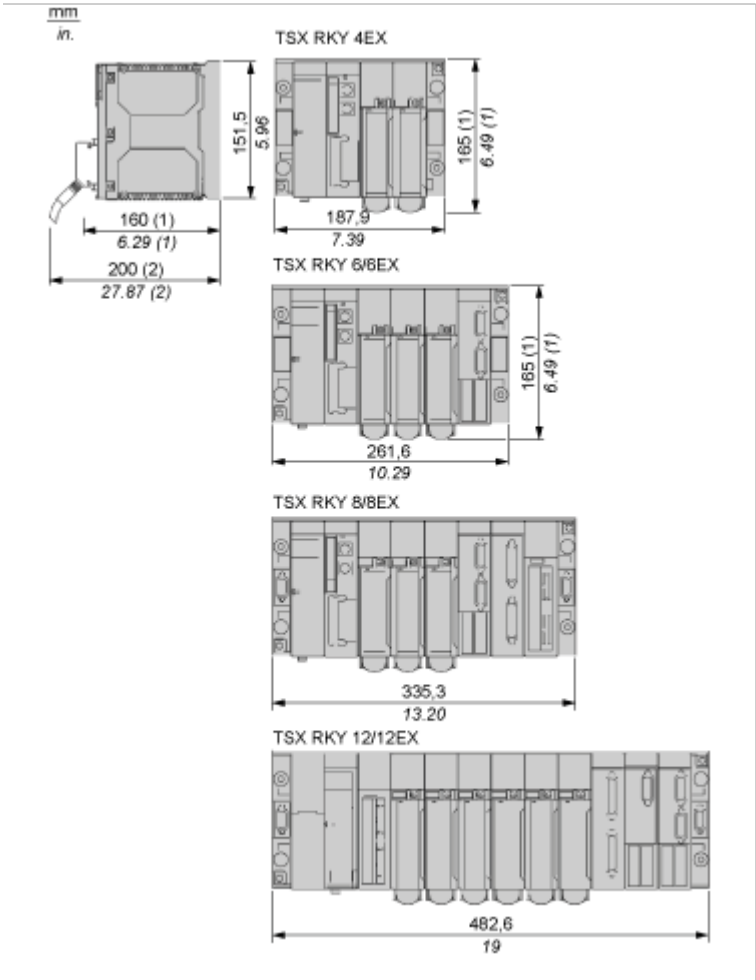
Use Longer

Lifetime extension	
Repair	No

Dimensions Drawings

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.