Product data sheet

Specifications

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

TSXP57554M

⚠ **Discontinued on:** Dec 31, 2018

⚠ **To be end-of-service on:** Dec 31, 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	64 128 96
Discrete I/O Processor Capacity	2040 I/O
Analogue I/O Processor Capacity	512 I/O
Number Of Application Specific Channel	64
Number Of Process Control Channel	30 up to 90 simple loops
Integrated Connection Type	Non isolated serial link female mini DIN connector (RS485) (19.2 kbit/s) Fipio manager (127 agents) SUB-D 9 connector USB port (12 Mbit/s)
Communication Module Processor Capacity	4 1 8 5
Memory Description	Internal RAM (with PCMCIA card) 1024 kB data Internal RAM (with PCMCIA card) 7168 kB program Internal RAM (without PCMCIA card) 1024 kB program and data PCMCIA card 16384 kB additional data storage
Maximum Size Of Object Areas	128 %MWi internal words located internal data 32768 %Mi located internal bits 64 %KWi constant words located internal data Unlimited (DFB and EFB function blocks) unlocated internal data Unlimited (elementary and derived data) unlocated internal data
Application Structure	1 fast task 1 master task 128 event tasks 32 timers 4 auxiliary tasks
Execution Time Per Instruction	0.0375...0.045 µs Boolean with PCMCIA card 0.0375...0.045 µs Boolean without PCMCIA card 0.045...0.06 µs word or fixed-point arithmetic with PCMCIA card 0.045...0.06 µs word or fixed-point arithmetic without PCMCIA card 0.48...0.56 µs floating points with PCMCIA card 0.48...0.56 µs floating points without PCMCIA card

Number Of Instructions Per Ms	14 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card
	14 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card
	20.26 Kinst/ms 100 % Boolean with PCMCIA card
	20.26 Kinst/ms 100 % Boolean without PCMCIA card
System Overhead	0.07 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	1680 mA at 5 V DC
Module Format	Double
Net Weight	0.56 kg

Environment

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

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ›
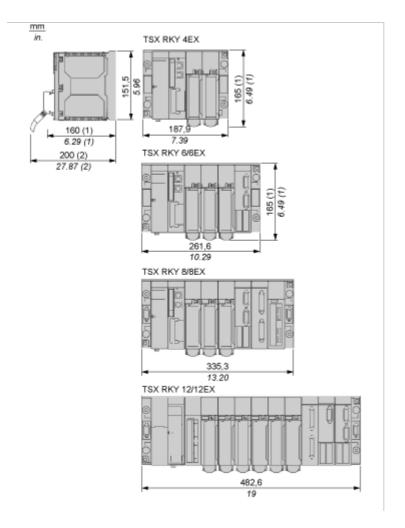
Guide to assess a product's sustainability ›

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

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.

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