Product data sheet

Specifications

Unity processor - 2 racks (12 slots) / 4 racks (4/6/8 slots) - 930 mA, 5 V DC

TSXP57154M

⚠ 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	2 12 slots 4 4/6/8 slots
Number Of Slots	24 16 32
Discrete I/O Processor Capacity	512 I/O
Analogue I/O Processor Capacity	24 I/O
Number Of Application Specific Channel	8
Integrated Connection Type	Non isolated serial link 2 female mini DIN connector (RS485) (19.2 kbit/s) Fipio manager (63 agents) SUB-D 9 connector
Communication Module Processor Capacity	2 1
Memory Description	Internal RAM (with PCMCIA card) 224 kB program Internal RAM (with PCMCIA card) 96 kB data Internal RAM (without PCMCIA card) 96 kB program and data PCMCIA card 256 kB additional data storage
Maximum Size Of Object Areas	32 kB (elementary and derived data) unlocated internal data 4096 %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
Application Structure	1 master task 1 fast task 32 event tasks
Execution Time Per Instruction	0.19 μs Boolean without PCMCIA card 0.25 μs Boolean with PCMCIA card 0.25 μs word or fixed-point arithmetic without PCMCIA card 0.5 μs word or fixed-point arithmetic with PCMCIA card 1.75...2.6 μs floating points with PCMCIA card 1.75...2.6 μs floating points without PCMCIA card
Number Of Instructions Per Ms	2.1 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card 3.1 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) 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	930 mA at 5 V DC
Module Format	Standard
Net Weight	0.42 kg

Environment

Standards	IEC 61131-2 CSA C22.2 No 213 Class I Division 2 Group C CSA C22.2 No 142 73/23/EEC CSA C22.2 No 213 Class I Division 2 Group A CSA C22.2 No 213 Class I Division 2 Group D 93/68/EEC 92/31/EEC CSA C22.2 No 213 Class I Division 2 Group B UL 508 89/336/EEC
Product Certifications	GL RMRS RINA DNV ABS LR BV
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	5.5 cm
Package 1 Width	18.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	589.0 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	8.015 kg

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Contractual warranty

Warranty   18 months

Sustainability

Green Premium^{TM} 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 >
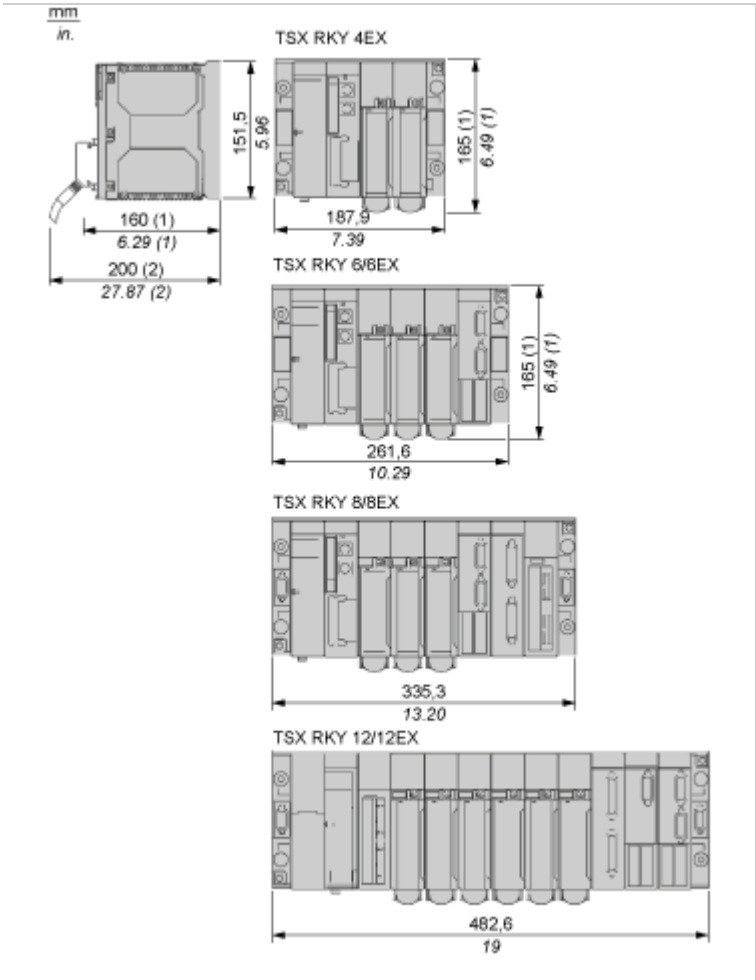
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm.For more information go to www.p65warnings.ca.gov

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.