

Product data sheet

Specifications



Single-format PL7 processor, Modicon Premium, Internal Ram 32Kwords program & data, PL7 Junior/Pro

TSXP57153M

❗ Discontinued - Service only

❗ Discontinued on: Dec 31, 2018

❗ To be end-of-service on: Dec 31, 2026

Main

Range Of Product	Modicon Premium Automation platform
Product Or Component Type	Single-format PL7 processor
Software Designation	PL7 Junior/Pro

Complementary

Number Of Racks	2 12 slots 4 4/6/8 slots
Number Of Slots	24 32 16
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 (19.2 kbit/s) Fipio manager (63 agents) SUB-D 9 connector
Communication Module Processor Capacity	1 network module 2 AS-Interface bus modules
Memory Description	Internal RAM (with PCMCIA card) 32 Kwords data Internal RAM (without PCMCIA card) 32 Kwords program and data PCMCIA card 128 Kwords additional data storage PCMCIA card 64 Kwords program
Maximum Size Of Object Areas	30.5 %MWi internal words located internal data 32 %KWi constant words located internal data 4096 %Mi located internal bits
Application Structure	1 fast task 1 master task 32 event tasks
Execution Time Per Instruction	0.5 µs Boolean without PCMCIA card 0.6 µs Boolean with PCMCIA card 0.62 µs word or fixed-point arithmetic without PCMCIA card 0.87 µs word or fixed-point arithmetic with PCMCIA card 44 µs floating points with PCMCIA card 44 µs floating points without PCMCIA card
Number Of Instructions Per Ms	0.85 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card 1.05 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card 1.18 Kinst/ms 100 % Boolean with PCMCIA card 1.52 Kinst/ms 100 % Boolean without PCMCIA card
System Overhead	0.8 ms for fast task 3.1 ms for master task

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

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 the terminal port (TER)
Current Consumption	8530 mA at 5 V DC
Module Format	Standard
Net Weight	0.42 kg

Environment

Standards	IEC 61131-2 93/68/EEC 92/31/EEC CSA C22.2 No 213 Class I Division 2 Group D CSA C22.2 No 142 89/336/EEC CSA C22.2 No 213 Class I Division 2 Group C 73/23/EEC CSA C22.2 No 213 Class I Division 2 Group B UL 508 CSA C22.2 No 213 Class I Division 2 Group A
Product Certifications	ABS DNV LR RINA GL RMRS 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	525.0 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	7.247 kg

Contractual warranty

Warranty	18 months
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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.