

# Product datasheet

Specifications



Single-format PL7 processor,  
Modicon Premium, Internal RAM  
80Kwords program & data, 32  
channel, PL7 Junior/Pro

TSXP57353LAM

! Discontinued - Service only

! Discontinued on: Dec 31, 2018 AD

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

## 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                         | 16 4/6/8 slots<br>8 12 slots                                                                                                                                                                                                                                                              |
| Number of slots                         | 128<br>96<br>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              | Fipio manager (127 agents) SUB-D 9 connector<br>Non isolated serial link 2 female mini DIN connector (19.2/115 kbit/s)                                                                                                                                                                    |
| Communication module processor capacity | 2 fieldbus modules (1 if CANopen used)<br>8 AS-Interface bus modules<br>1 CANopen<br>3 network module                                                                                                                                                                                     |
| Memory description                      | Internal RAM (with PCMCIA card) 96 Kwords data<br>Internal RAM (without PCMCIA card) 80 Kwords program and data<br>PCMCIA card 2688 Kwords additional data storage<br>PCMCIA card 384 Kwords program                                                                                      |
| Maximum size of object areas            | 16384 %Mi located internal bits<br>30.5 %MWi internal words located internal data<br>32 %KWi constant words located internal data                                                                                                                                                         |
| Application structure                   | 1 fast task<br>64 event tasks<br>1 master task                                                                                                                                                                                                                                            |
| Execution time per instruction          | 0.19 µs Boolean without PCMCIA card<br>0.21 µs Boolean with PCMCIA card<br>0.25 µs word or fixed-point arithmetic without PCMCIA card<br>0.42 µs word or fixed-point arithmetic with PCMCIA card<br>2.6 µs floating points with PCMCIA card<br>2.6 µs floating points 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

|                               |                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of instructions per ms | 2.5 Kinst/ms 65 % Boolean + 35 % fixed arithmetic with PCMCIA card<br>3.57 Kinst/ms 65 % Boolean + 35 % fixed arithmetic without PCMCIA card<br>3.7 Kinst/ms 100 % Boolean with PCMCIA card<br>4.76 Kinst/ms 100 % Boolean without PCMCIA card                   |
| System overhead               | 0.35 ms for fast task<br>1 ms for master task                                                                                                                                                                                                                    |
| Marking                       | CE                                                                                                                                                                                                                                                               |
| Local signalling              | 1 LED (green) for processor running (RUN)<br>1 LED (red) for activity on Fipio bus (FIP)<br>1 LED (red) for I/O module or configuration fault (I/O)<br>1 LED (red) for processor or system fault (ERR)<br>1 LED (yellow) for activity on the terminal port (TER) |
| Current consumption           | 1650 mA at 5 V DC                                                                                                                                                                                                                                                |
| Module format                 | Standard                                                                                                                                                                                                                                                         |
| Net weight                    | 0.42 kg                                                                                                                                                                                                                                                          |

## Environment

|                                       |                                                                                                                                                                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | IEC 61131-2<br>CSA C22.2 No 142<br>89/336/EEC<br>CSA C22.2 No 213 Class I Division 2 Group B<br>CSA C22.2 No 213 Class I Division 2 Group C<br>92/31/EEC<br>CSA C22.2 No 213 Class I Division 2 Group A<br>73/23/EEC<br>UL 508<br>93/68/EEC<br>CSA C22.2 No 213 Class I Division 2 Group D |
| Product certifications                | DNV<br>BV<br>LR<br>ABS<br>GL<br>RMRS<br>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<br>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             | 588.0 g |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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 >](#)

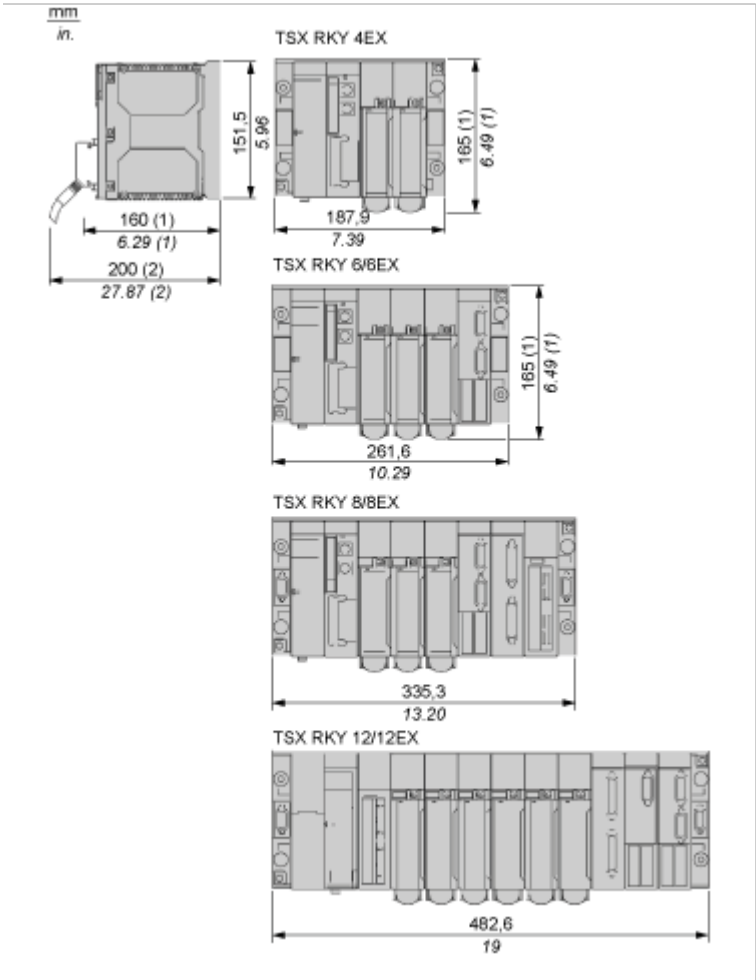
### Use Longer

| 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.