

# Schneider TSXP575634M Manual

|                |                                                          |
|----------------|----------------------------------------------------------|
| Brand          | Schneider                                                |
| Product Series | Schneider                                                |
| Product Type   | Non-isolated serial link, 2 female mini DIN, 19.2 kbit/s |

## Description

The TSXP575634M from Schneider Electric is part of the TSX Micro PLCs series and features robust internal memory options. With an internal RAM of 32 K words for data and programs, this module can be enhanced using a PCMCIA card for extra data capacity.

### Technical specifications for TSXP575634M

Manufacturer Schneider Electric

Product Line TSX Micro PLCs

Part Number TSXP575634M

EAN 3595862066501

Weight 1.00 lbs (0.45 kg)

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, 64 Kwords program

Execution Time per Instruction 0.5  $\mu$ s Boolean without PCMCIA card, 0.6  $\mu$ s Boolean with 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)

Local Signalling 1 LED (green) for processor running (RUN), 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 440 mA, 5 V DC

Module Format Standard

Internal RAM 32 Kwords data

Inrush Current 38 A at 240 V / 38 A at 100 V

Number of Racks 2 (12 slots), 4 (4/6/8 slots)

Discrete I/O Processor Capacity 512 I/O

Analogue I/O Processor Capacity 24 I/O

Integrated Connection Type Non-isolated serial link, 2 female mini DIN, 19.2 kbit/s

Communication Module Processor Capacity 1 network module, 2 AS-Interface bus modules, 1 CANopen

### Description

The Schneider Electric TSXP575634M is a versatile controller module designed for use in the TSX Micro PLC series. Its standard internal memory is 32 Kwords, allocated for programs and operational data. Users can augment this capability with a PCMCIA card, adding 128 Kwords for data storage and 64 Kwords for program memory.

This module is efficient, with an execution time of 0.5  $\mu$ s per Boolean instruction when not using a PCMCIA card. With the card in place, the execution time increases slightly to 0.6  $\mu$ s. While executing instructions, the module achieves a throughput of 1.05 Kinst/ms without the PCMCIA card and a slightly lower throughput of 0.85 Kinst/ms with the additional card.

Seven local signaling LEDs are included for operational feedback: a green LED indicates the processor is running, while a red LED alerts to I/O module issues or configuration faults. Another red LED signals processor or system errors and a yellow LED indicates activity on the terminal port.

The module's current consumption is 440 mA at a voltage of 5 V DC. Weighing 0.84 lbs. (or 0.38 kg), it supports inrush currents of 38 A for 240 V and 100 V systems. It can accommodate two racks of 12 slots or four racks with 4, 6, or 8 slots configuration options. For I/O capacity, this controller can handle 512 discrete I/O connections alongside 24 analog I/O connections.

For connections, the module features an integrated and non-isolated serial communication link with two female mini-DIN ports operating at 19.2 kbit/s, allowing seamless integration into existing systems. Furthermore, the communication module processor can support one network module, two AS-Interface bus modules, and one CANopen, enhancing its versatility in various applications.

#### Range of Product

Modicon Premium Automation platform

Product or Component Type

Unity processor

Software Designation

Unity Pro

Complementary

Concept

Transparent Ready

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 RS485)19.2 kbit/s)

Ethernet TCP/IP RJ45

USB port12 Mbit/s)

Port Ethernet

10BASE-T/100BASE-TX

Communication module processor capacity

1

3

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

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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 master task  
128 event tasks  
32 timers  
1 fast task  
4 auxiliary tasks  
Execution time per instruction  
0.0375...0.045  $\mu$ s Boolean with PCMCIA card  
0.0375...0.045  $\mu$ s Boolean without PCMCIA card  
0.045...0.06  $\mu$ s word or fixed-point arithmetic with PCMCIA card  
0.045...0.06  $\mu$ s word or fixed-point arithmetic without PCMCIA card  
0.48...0.56  $\mu$ s floating points with PCMCIA card  
0.48...0.56  $\mu$ s 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 fast task  
1 ms master task  
Marking  
CE  
Local signalling  
1 LED (green) for Ethernet TCP/IP port ready (RUN)  
1 LED (green) for processor running (RUN)  
1 LED (red) for collision detection (COL)  
1 LED (red) for Ethernet TCP/IP port fault (ERR)  
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)  
1 LED (yellow) for Ethernet link diagnostics (STS)  
1 LED (yellow) for reception activity (RX)  
1 LED (yellow) for transmission activity (TX)  
Current consumption  
1680 mA 5 V DC  
Module format  
Double  
Net Weight  
1.34 lb(US) (0.61 kg)  
Environment  
Standards  
CSA C22.2 No 142  
CSA C22.2 No 213 Class I Division 2 Group D  
CSA C22.2 No 213 Class I Division 2 Group B  
73/23/EEC  
93/68/EEC  
89/336/EEC

CSA C22.2 No 213 Class I Division 2 Group C

IEC 61131-2

UL 508

92/31/EEC

CSA C22.2 No 213 Class I Division 2 Group A

Product Certifications

BV

DNV

RMRS

GL

ABS

RINA

LR

Ambient Air Temperature for Operation

32...140 °F (0...60 °C)

Ambient Air Temperature for Storage

-13...158 °F (-25...70 °C)

Relative Humidity

10...95 % without condensation for operation

5...95 % without condensation for storage

Operating altitude

0...6561.68 ft (0...2000 m)

Protective treatment

TC

IP Degree of Protection

IP20

Pollution degree

2

Ordering and shipping details

Category

US1000I22000

Discount Schedule

000I

GTIN

3595862066501

Returnability

Yes

Country of origin

FR

## Technical Specifications

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Discrete I

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