

INDUSTRIAL AUTOMATION PRODUCT

TSXP574634M

Modicon Premium Unity Processor

Schneider Electric TSXP574634M is a Modicon Premium Unity processor with integrated Ethernet. It executes the control application and coordinates rack I/O, communication and diagnostic services.

IDENTITY	VERIFIED VALUE
Manufacturer	Schneider Electric
System family	Modicon Premium Automation Platform
Part number	TSXP574634M
Country	France
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Schneider Electric product record.

PARAMETER	VALUE
Maximum racks	8 racks with 12 slots; 16 racks with 4, 6 or 8 slots
Discrete I/O capacity	2040
Analog I/O capacity	256
Application-specific channels	64
Simple control loops	20 to 60
Integrated RAM	440 KB without PCMCIA
Program memory with PCMCIA	2048 KB
Data memory with PCMCIA	440 KB
Additional storage with PCMCIA	16384 KB
Serial interface	RS-485 mini-DIN; 19.2 kbit/s maximum

PARAMETER	VALUE
Ethernet interface	RJ45; 10BASE-T/100BASE-TX
USB interface	12 Mbit/s
Master tasks	1
Fast tasks	1
Event tasks	64
Backplane current	1880 mA at 5 Vdc
Degree of protection	IP20
Operating temperature	0 to 60 degC
Storage temperature	-25 to +70 degC

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Modicon Premium racks and power supplies
Companion hardware	Premium local and remote I/O modules
Field connection	Unity Pro engineering workstation
Primary system function	Executes Unity Pro control logic in a Modicon Premium rack
Controlled acceptance duty	Large Modicon Premium process-control system

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System Role and Architecture

Schneider Electric TSXP574634M is a Modicon Premium Unity processor with integrated Ethernet. It executes the control application and coordinates rack I/O, communication and diagnostic services.

FUNCTION 1

Executes Unity Pro control logic in a Modicon Premium rack

FUNCTION 2

Coordinates discrete, analog and application-specific I/O channels

FUNCTION 3

Provides integrated Ethernet TCP/IP communication for controller services

FUNCTION 4

Supports serial and USB engineering connections for configuration and maintenance

Matched system components

- Modicon Premium racks and power supplies
- Premium local and remote I/O modules
- Unity Pro engineering workstation
- approved PCMCIA memory card

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Modicon Premium racks and power supplies
Companion hardware	Premium local and remote I/O modules
Field connection	Unity Pro engineering workstation
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Applications and Engineering Context

Large Modicon Premium process-control system

Executes Unity Pro control logic in a Modicon Premium rack

Ethernet-connected production controller

Coordinates discrete, analog and application-specific I/O channels

High-I/O-count machine automation

Provides integrated Ethernet TCP/IP communication for controller services

Premium platform modernization and firmware maintenance

Supports serial and USB engineering connections for configuration and maintenance

TECHNICAL NOTE

Confirm rack population, PCMCIA use and installed processor/coprocessor firmware before replacement, then restore the approved Unity project and verify Ethernet, serial and I/O diagnostics.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	TSXP574634M / TSXP574634M recorded
Physical interface	Modicon Premium racks and power supplies
Companion check	Premium local and remote I/O modules
Functional proof	Executes Unity Pro control logic in a Modicon Premium rack
Application test	Large Modicon Premium process-control system

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Engineering Precautions

1

Verify the complete TSXP574634M marking and hardware revision before service.

2

Stop the controlled process and isolate rack power before removing the processor.

3

Record rack addresses, network settings, task configuration and PCMCIA contents.

4

Use ESD controls and protect the backplane and communication connectors.

5

Match processor OS and Ethernet coprocessor firmware to the approved compatibility baseline.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
ATV320U75N4B	Altivar Machine variable-speed drive	Open product page
140CPS11100	Modicon Quantum power-supply module	Open product page
140CRP93100	Modicon Quantum RIO networking module	Open product page

MANUFACTURER SOURCE RECORD

TSXP574634M Product Data and Ethernet Coprocessor Documentation

TSXP574634M / V6.1

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