

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.

PRODUCT SNAPSHOT

BRAND

Schneider Electric

FAMILY

Modicon Premium Automation Platform

PART

TSXP574634M

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PRODUCT OVERVIEW

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.

- 1

Executes Unity Pro control logic in a Modicon Premium rack
- 2

Coordinates discrete, analog and application-specific I/O channels
- 3

Provides integrated Ethernet TCP/IP communication for controller services
- 4

Supports serial and USB engineering connections for configuration and maintenance

SYSTEM COMPONENTS

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

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

TECHNICAL DATA

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

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

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Restore the validated Unity Pro application without transferring settings from another CPU model.
- 7 Check local and remote I/O health before enabling outputs.
- 8 Prove network communication, sequence execution and safety interlocks before production release.

ENGINEER FAQ

Q1 Does TSXP574634M match Modicon Premium racks and power supplies in a Large Modicon Premium process-control system installation?

Verify the complete TSXP574634M marking, the documented Modicon Premium Automation Platform position and the installed Modicon Premium racks and power supplies before fitting the assembly.

Q2 How should TSXP574634M be wired when it must executes unity pro control logic in a modicon premium rack?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for TSXP574634M; then continuity-test the affected path.

Q3 Which Modicon Premium Automation Platform records should be captured before removing TSXP574634M?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with TSXP574634M before disconnection.

Q4 What controlled test confirms that TSXP574634M can coordinates discrete, analog and application-specific i/o channels?

Apply the approved field or simulated stimulus, observe the Modicon Premium Automation Platform indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Premium local and remote I/O modules condition should be checked when TSXP574634M reports an abnormal state?

Check the Premium local and remote I/O modules supply, seating and connection first, then compare channel diagnostics with the recorded TSXP574634M baseline.

Q6 Can TSXP574634M be moved directly into Ethernet-connected production controller without validating approved PCMCIA memory card?

No. Confirm the approved PCMCIA memory card, revision, connection scheme and Modicon Premium Automation Platform configuration before transferring TSXP574634M to that duty.

Q7 What maintenance evidence is required after TSXP574634M is used for High-I/O-count machine automation?

Retain the nameplate record, corrective action, final diagnostics and a controlled high-i/o-count machine automation functional-test result for TSXP574634M.

Q8 How should TSXP574634M be returned to service in Premium platform modernization and firmware maintenance?

Restore power under control, verify provides integrated ethernet tcp/ip communication for controller services, exercise the intended signal path and release TSXP574634M only after the Modicon Premium Automation Platform remains in its approved operating state.