

Schneider Series Service Manual

TSXP5720

1. Description

The TSXP5720 is a CPU module from Schneider Electric's Modicon series, designed for flexibility in functional applications. With a current capacity of 5 Volts DC, it maintains effective power management while handling a significant memory capacity and providing various network connection options.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type CPU Module
Product	Line Modicon
Part	Number TSXP5720
Internal	RAM Memory Capacity 48K words
Extension	Memory Capacity 128K words
Maximum	Memory Capacity 176K words
Supply	Voltage Rating 5 Volts DC
Typical	Current Consumption for the Power Supply Module 440 milliamperes at 5 Volts DC
Maximum	Current Consumption for the Power Supply Module 600 milliamperes at 5 Volts DC
Execution	Time for 1K Instructions 0.98 milliseconds for the PCMIA card, 0.78 milliseconds for the internal RAM
Number	of Discrete Inputs/Outputs Up to 1,024 discrete inputs/outputs
Number	of Analog Inputs/Outputs Up to 80 analog inputs/outputs
Power	Consumption 2.25 Watts (typical)
Network	Connection Types FIPWAY, ETHWAY/TCP IP, Modbus Plus
Ambient	Operating Temperature 0 to 60°C (non-condensing environment)
Storage	Temperature -25 to 70°C (non-condensing environment)
Protection	Rating IP20
Description	
The	TSXP5720 CPU module by Schneider Electric is designed for efficiency in

3. Product Information

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Technical specifications for TSXP5720

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Ambient Operating Temperature 0 to 60°C (non-condensing environment)

Storage Temperature -25 to 70°C (non-condensing environment)

Protection Rating IP20

Description

The TSXP5720 CPU module by Schneider Electric is designed for efficiency in control applications. Supporting a supply voltage of 5 Volts DC, it is optimized for power with a typical current consumption of 440 milliamperes and a maximum of 600 milliamperes. The module provides significant memory capabilities, beginning with 48K words of internal RAM, complemented by an extension capacity of 128K words, culminating in a total addressable memory of up to 176K words.

Performance-wise, the TSXP5720 efficiently executes 1K instructions in just 0.98 milliseconds when utilizing the PCMIA card and 0.78 milliseconds with its internal RAM, ensuring rapid operation in demanding scenarios. In terms of connectivity, the module includes support for various network types, such as FIPWAY, ETHWAY/TCP IP, and Modbus Plus, making it highly versatile for integration into existing systems.

The TSXP5720 can accommodate a considerable volume of I/O points, supporting up to 1,024 discrete inputs/outputs and up to 80 analog inputs/outputs. The typical power consumption is measured at 2.25 Watts, contributing to its overall efficiency metrics. Operating conditions for the module range from 0 to 60°C while in use and from -25 to 70°C during storage, both under non-condensing atmospheres. With its IP20 rating, this module demonstrates adequate protection against non-corrosive environmental factors, making it suitable for various industrial applications.