Schneider TSXP573623AM Manual

Brand	Schneider
Product Series	Schneider
Product Type	-

Description

The TSXP573623AM from Schneider Electric is a versatile micro PLC designed for sophisticated control applications. It features integrated Ethernet TCP/IP connectivity and a non-isolated serial link, which enables efficient data communication. With a robust capacity for 16 racks, this PLC can handle extensive I/O operations.

Technical specifications for TSXP573623AM
Manufacturer Schneider Electric
Product Line TSX Micro PLCs
Part Number TSXP573623AM
EAN 3595863914634
Weight 1.00 lbs (0.45 kg)
Integrated Connection Type Ethernet TCP/IP (RJ45, 10/100 Mbit/s) and non-isolated serial link (2 female mini DIN, 19.2/115 kbit/s)
Communication Module Processor Capacity 2 fieldbus modules (1 if CANopen used), 8 AS-Interface bus modules
Execution Time per Instruction - 0.12 µs for Boolean without PCMCIA card
PCMCIA Slots 2 slots, one for memory extension card and another for communication card or 384 Kwords program memory extension card
Application Structure 1 master task, 1 fast task, 64 event tasks
Internal RAM 64 Kwords for program and data
Number of Racks Supports up to 16 racks
Discrete I/O Processor Capacity 1024 I/O
Analogue I/O Processor Capacity 128 I/O
Max. Size of Object Areas 30.5% MWi internal words located internal data, 32% KWi constant words located internal data, 16384% Mi located internal bits
No. of Instructions per ms 4.49 Kinst/ms 100% Boolean with PCMCIA card, 6.57 Kinst/ms 100% Boolean without PCMCIA card
Display Block Comprising multiple LEDs on the front panel
RESET Button Causes a cold start of the PLC when pressed
No. of Process Control Channels 15 up to 45 simple loops
Memory Description - Internal RAM (with PCMCIA card) 80 Kwords data
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Request a Repair

Description
The Schneider Electric TSXP573623AM micro PLC integrates various advanced features to facilitate efficient automation. It supports Ethernet TCP/IP connectivity through an RJ45 interface for 10/100 Mbit/s data rates alongside a non-isolated serial link utilizing two female mini-DIN connectors, facilitating communication at 19.2 or 115 kbit/s. With the capacity to manage two fieldbus modules—reduced to one if using CANopen—and a maximum of eight AS-Interface bus modules, this unit is designed for extensive networking capabilities.

Instructions' execution time is notably rapid, clocking in at 0.12 µs for Boolean operations without a PCMCIA card and 0.17 µs with the card installed. Two PCMCIA slots augment this flexibility: one for memory extension and another for either communication or a 384 Kwords program memory extension card. For application structuring, this PLC accommodates one master task, one fast task, and up to 64 event tasks, demonstrating its effectiveness in managing complex processes.

With a total internal RAM of 64 Kwords available for program and data storage, the TSXP573623AM ensures ample resources for operation. The architecture permits handling up to 16 racks and supports 1024 discrete I/O channels alongside 128 analog I/O channels, making it well-suited for intricate control requirements. The maximum size of object areas is defined by specific ratios of internal data locations, such as 30.5% for internal words and 32% for constant words. Additionally, the module processes 4.49 K instructions per millisecond with a PCMCIA card and 6.57 K instructions per millisecond without one.

The PLC incorporates a display block featuring multiple LEDs on the front panel for user interaction and system status. A RESET button is available to initiate a cold start of the system when required. The device can control 15 process control channels, managing up to 45 simple loops effectively. When equipped with a PCMCIA card, the controller can utilize 80 Kwords of internal RAM, which can be expanded by 2688 Kwords of additional data storage if needed, providing significant flexibility and capacity in automation applications.

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