

Schneider 140CPU42401C Manual

Brand	Schneider
Product Series	Schneider
Product Type	CPU Module

Description

The 140CPU42401C is a high-performance CPU module within Schneider Electric's Modicon Quantum series. It incorporates a memory capacity of 1 MB and features both RS232 and Modbus Plus ports for versatile communication, functioning under a voltage supply of 5 V DC.

Technical specifications for 140CPU42401C

Manufacturer Schneider Electric

Product Type CPU Module

Product Line Modicon Quantum

Part Number 140CPU42401C

RAM 1 MB

Modbus Port 1 x RS232

Watchdog Timer Integrated

Voltage Supply 5 V DC

Coating Type Conformal Coated (CC)

Modbus Plus Port 1 x Modbus Plus

CPU Type High-Performance

Built-in Flash Memory Yes

Mounting Type Rack-mounted

Execution Time (Boolean) ~0.3 μ s

I/O Compatibility Local & Remote I/O

Operating Temperature 0...60°C

Instruction Set Full IEC 61131-3

Description

The Modicon Quantum 140CPU42401C from Schneider Electric serves as a robust CPU module for complex control systems. This device operates using a stable 5 V DC power supply and comes equipped with 1 MB of RAM, ensuring efficient data processing capabilities. Built for versatility, this module features one RS232 port and one Modbus Plus port, enabling effective communication within various network setups.

The module mounts directly into a rack, facilitating straightforward integration into existing control environments. Its operating temperature range spans from 0°C to 60°C, making it suitable for different operational conditions. An integrated watchdog timer enhances the reliability of processes by monitoring system health.

This CPU module utilizes a full IEC 61131-3 instruction set, supporting a broad spectrum of programming functions. Additionally, the execution time for Boolean instructions is approximately 0.3 microseconds, which supports rapid processing.

The 140CPU42401C also features built-in flash memory and is conformally coated to provide additional protection against environmental factors, making it a durable option for industrial applications. Overall, this CPU module is designed for high-performance tasks and is compatible with a wide array of local and remote I/O configurations, ensuring adaptability in diverse automation environments.

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