

Schneider Series Service Manual

140CPU42401C

1. 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.

2. Specifications

Specification	Value
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 μs
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.

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Technical specifications for 140CPU42401C

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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.