

Schneider 140CPU21304C Manual

Brand	Schneider
Product Series	Schneider
Product Type	CPU Module

Description

The 140CPU21304C is a CPU module from Schneider Electric's Modicon Quantum series, suitable for harsh environments due to its conformal coating. With 768 KB of RAM and 16 KB of program memory, it supports both local and remote I/O, making it versatile for various applications.

Technical specifications for 140CPU21304C

Manufacturer Schneider Electric

Product Type CPU Module

Product Line Modicon Quantum

Part Number 140CPU21304C

Coating Type Conformal Coated (Harsh Env)

Mounting Type Rack-mounted

Math Instructions Supported

RAM 768 KB

Modbus Port 1 x RS232

Battery-backed RAM Yes

Execution Time (Boolean) ~0.3 μ s

Watchdog Function Integrated

Modbus Plus Port 1 x Modbus Plus

Program Memory 16 KB

I/O Support Local and Remote

Status LEDs RUN, ERR, I/O, COMM

Operating Temp 0...60°C

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Description

The Modicon Quantum series features the 140CPU21304C, a highly capable CPU module designed for flexibility in demanding environments. This unit is equipped with a conformal coating that provides protection against harsh conditions. It is rack-mounted and supports advanced math instructions, making it suitable for various computational tasks.

A substantial RAM capacity of 768 KB is available, complemented by 16 KB of program memory, which aids in efficient data handling and processing. The execution time for Boolean operations is approximately 0.3 microseconds, ensuring quick response times for applications requiring rapid processing. Integrated battery-backed RAM allows for data retention during power outages, enhancing reliability.

Communication options are diverse, featuring one RS232 Modbus port and one Modbus Plus port, facilitating connectivity within industrial networks. The CPU supports both local and remote I/O configurations, which expand its use in different system architectures.

This module is designed to operate within a temperature range of 0 to 60°C, ensuring reliable performance in various environmental conditions. Status LEDs provide real-time feedback with indicators for RUN, ERR, I/O, and COMM, allowing for easy monitoring of

operational status.

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