

Schneider Series Service Manual

140CPU11304C

1. Description

The Modicon Quantum 140CPU11304C is a CPU module designed for industrial automation processes. With a robust memory configuration and a communication speed that can reach 1 Mbps, it is suitable for demanding applications.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type CPU Module
Product	Line Modicon Quantum
Part	Number 140CPU11304C
Extended	Memory 1 x MB+
RAM	768 KB
Program	Capacity 16 K steps
Mounting	Type Rack-mounted
User	Logic Memory 16 KB
Communication	Port 1 x Modbus Plus
Battery-backed	RAM Yes
Serial	Ports 1 x RS232
Watchdog	Function Integrated
Communication	Speed Up to 1 Mbps
Local	Rack Support Yes
Status	LEDs Run, Fault, I/O, Comm
Execution	Time (Boolean) ~0.3 μs

3. Product Information

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Technical specifications for 140CPU11304C

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Serial Ports 1 x RS232

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Local Rack Support Yes

Status LEDs Run, Fault, I/O, Comm

Execution Time (Boolean) ~0.3 μs

Description

The Schneider Electric 140CPU11304C, part of the Modicon Quantum series, is tailored for high-performance control applications. This CPU module operates with an extended memory of 1 MB+ and is equipped with 768 KB of dynamic RAM. Designed to accommodate significant processing requirements, it supports program capacities of up to 16,000 steps. As a rack-mounted unit, it fits seamlessly into existing setups. It includes a single Modbus Plus communication port, facilitating effective automation across different devices. Serial communication capabilities are added through an RS232 port. This module features integrated battery-backed RAM, ensuring that important data is preserved during power outages. The watchdog function is present, contributing to the module's reliability by continuously monitoring system operations. The communication speed maxes out at 1 Mbps, enabling fast data transfer. Programming is seamless with compatible software, which streamline the development process. Local rack support adds to its versatility, making it adaptable within various configurations. Also included are status LEDs that provide real-time feedback on the module's operation, with indicators for run status, fault occurrences, I/O activity, and communication processes. With an execution time of approximately 0.3 microseconds for Boolean operations, the 140CPU11304C stands out for its efficiency in executing logic functions.