

Schneider Series Service Manual

171CCC96020C

1. Description

The 171CCC96020C processor adapter from Schneider Electric's Modicon Momentum range operates effectively within a temperature bracket of 0°C to 60°C. Featuring a robust x86-based architecture, it has a clock frequency of 50 MHz and a total of 512 KB Flash and 544 KB RAM.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Processor Adaptor
Product	Line Modicon Momentum
Part	Number 171CCC96020C
Mounting	Momentum I/O Base
Clock	Frequency 50 MHz
Communication	Ports 1 Ethernet, 1 I/O bus
CPU	Architecture x86-based
Protective	Coating Conformal (Humiseal 1A33)
Word	Length 16-bit
Communication	Protocol Ethernet (Modbus TCP, I/O scan)
Operating	Temperature 0°C to 60°C
Memory	Type 512 KB Flash, 544 KB RAM
Supply	Voltage 5 VDC ±5%
Program	Memory 18 KB (LL984)
I/O	Capacity (Discrete) 8192 In / 8192 Out
Data	Memory 24 KB
I/O	Capacity (Registers) 26048 In / 26048 Out

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Technical specifications for 171CCC96020C

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I/O Capacity (Registers) 26048 In / 26048 Out

The 171CCC96020C processor adaptor is an important component in Schneider Electric's Modicon Momentum series, engineered specifically for effective integration with the Momentum I/O base. It boasts a clock frequency of 50 MHz and utilizes an x86-based CPU architecture to ensure efficient processing.

This processor includes an Ethernet communication port as well as an I/O bus, facilitating reliable communication using the Modbus TCP protocol for data exchange. With a total word length of 16 bits, it supports a program memory capacity of 18 KB, utilizing the LL984 programming language effectively. Data handling is ample, with a dedicated memory area of 24 KB available for storing critical information.

The device operates with a supply voltage of 5 VDC ±5%, aligning with standard control system requirements. It features a protective conformal coating composed of Humiseal 1A33, providing enhanced durability against environmental factors. The operating temperature range ensures reliability under various conditions, maintaining performance between 0°C and 60°C.

The processor is designed for high capacity, offering 8192 discrete input and output points, and an impressive capacity of 26048 registers for extended data management. This specification set distinctly positions the 171CCC96020C as a robust solution for complex automation projects.