

Schneider Series Service Manual

171CCC96020

1. Description

The 171CCC96020 from Schneider Electric is a processor adapter module designed for the Modicon Momentum series. It supports Ethernet communication and features a dual-port architecture, allowing for integrated I/O operations.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type M1/M1E Processor Adapter Module
Product	Line Modicon Momentum
Part	Number 171CCC96020
EAN	3595860019318
Weight	1.00 lbs (0.45 kg)
Number	of Communication Ports One Ethernet port and one Input/Output bus port
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Communication	Protocol Ethernet
Clock	Frequency 50 megahertz
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Flash	Memory Capacity 512 kilobytes
Word	Length 16 bit
Memory	Type Flash memory and Random Access Memory (RAM)
RAM	Capacity 544 kilobytes
Input/Output	Limit Processor Capacity 8,192 bits (maximum)
Scan	Time 0.3 milliseconds per kilobytes
Discrete	Input/Output Processor Capacity 8,192 bits (maximum)
Register	Input/Output Processor Capacity 26,048 words (maximum)

3. Product Information

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Technical specifications for 171CCC96020

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Description

The Schneider Electric 171CCC96020 serves as an M1/M1E processor adapter module within the Modicon Momentum series, facilitating communication and processing tasks in industrial settings. This module incorporates one Ethernet port alongside an input/output bus port, allowing for versatile connectivity. It operates on a clock frequency of 50 megahertz, ensuring rapid data handling capabilities.

In terms of memory, it provides a flash memory capacity of 512 kilobytes as well as a RAM capacity of 544 kilobytes, which can be utilized for storing essential data and instructions. Designed to perform in ambient temperatures ranging from 0 to 60°C, the unit remains effective in challenging environments, provided they are non-condensing. Additionally, it is capable of withstanding storage conditions between -40 and 85°C. The processor's capacity allows for handling input/output limits, with a maximum of 8,192 bits and a register input/output capacity of 26,048 words.

With a scan rate of 0.3 milliseconds per kilobyte, the efficiency of this module is reinforced. The seamless integration of flash memory and RAM contributes to its reliability and robust performance in automated control applications.

Range of Product

Modicon Momentum automation platform

Product or Component Type

M1/M1E processor adaptor

Concept

Transparent Ready

Level or class

Class B10

Software designation

Concept V2.6

Modsoft >= V2.5

ProWORX NxT V2.0

ProWORX 32

Communication Port Protocol

Ethernet

Processor name

X 86 based (INTEL, AMD)

Clock frequency

50 MHz

Complementary

Web services

Web page loader software tool

Rack viewer

Data editor

Web page loader

Ethernet service

I/O scanning

Modbus TCP messaging

Discrete I/O processor capacity

8192 I/8192 O

Memory Type

512 KB flash

544 kB RAM

Memory description

Program memory 18 kB LL984

Data 24 kB

Material

Lexan

Word length

16 bit

[Us] rated supply voltage

5.0 V DC +/-5 %

Supply

By Momentum I/O base

Exact time for 1 Kinstruction

1 ms

Register I/O processor capacity

26048 I/26048 O

I/O limit processor capacity

8192 bits max

I/O words/drop

128 I/O Concept

80 I/O ProWORX

Number of port

1 I/O bus

1 ETHERNET

Marking

CE

Net Weight

0.093 lb(US) (0.042 kg)

Environment

Protective treatment

TC

Ambient Air Temperature for Operation

32...140 °F (0...60 °C)

Ambient Air Temperature for Storage

-40...185 °F (-40...85 °C)

Relative Humidity

5...96 % without condensation

Operating altitude

6561.68 ft (2000 m)

Shock resistance

<= 15 gn peak 11 ms half sine wave acceleration

Vibration resistance

0.75 mm d.a

1 gn

Product Certifications

Nema type 250

FM Class 1 Division 2

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