

Schneider Series Service Manual

171CCC96030

1. Description

The 171CCC96030 is an M1/M1E Processor Adapter Module from Schneider Electric’s Modicon Momentum series, functioning effectively at a clock frequency of 50 megahertz. It employs Ethernet as its communication protocol, enhancing connectivity options for integration into automation systems.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type M1/M1E Processor Adapter Module
Product	Line Modicon Momentum
Part	Number 171CCC96030
EAN	3595862000550
Weight	1.00 lbs (0.45 kg)
Clock	Frequency 50 megahertz
Communication	Protocol Ethernet
Memory	Type Flash memory and Random Access Memory (RAM)
Flash	Memory Capacity 1 megabyte
RAM	Capacity 544 kilobytes
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Rated	Supply Voltage 5 Volts DC
Number	of Communication Ports One Ethernet port and one Input/Output bus port
Register	Input/Output Processor Capacity 26,048 words (maximum)
Scan	Time 0.3 milliseconds per kilobytes
Word	Length 16 bit
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Operating	Altitude Less than 6,561 feet (2,000 meters)
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Technical specifications for 171CCC96030

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Description

Schneider Electric’s 171CCC96030, classified as an M1/M1E Processor Adapter Module, operates at a clock frequency of 50 megahertz. This unit employs Ethernet as its communication protocol, ensuring reliable connectivity in an industrial setting.

It comes equipped with 1 megabyte of flash memory alongside 544 kilobytes of RAM, providing adequate storage for operational needs. The capacity for register input/output processing extends to 26,048 words at a 16-bit word length, making it suitable for various applications. The module features a scan time of 0.3 milliseconds per kilobyte, allowing for rapid data processing.

Operating efficiently within an ambient temperature range from 0 to 60°C, this device is intended for use in non-condensing environments. Additionally, its storage temperature range reaches from -40 to 85°C, offering flexibility in installation and use. With a rated supply voltage of 5 volts DC, it is designed for low power consumption.

The 171CCC96030 consists of one Ethernet communication port and one input/output bus port, facilitating effective integration into broader control systems. It is lightweight, at just 0.09 pounds (0.042 kilograms), and is designed to function at operating altitudes of less than 6,561 feet (2,000 meters). This combination of features renders the 171CCC96030 a capable component for advanced automation configurations.

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) IEC executive

Clock frequency

50 MHz

Complementary

Web services

Rack viewer

Web page loader software tool

Web page loader

Data editor

Ethernet service

I/O scanning

Modbus TCP messaging

Discrete I/O processor capacity

8192 I/8192 O

Memory Type

1 MB flash

544 kB RAM

Memory description

Program memory 18 kB LL984

Program memory 200 kB IEC

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

1 gn

0.75 mm d.a

Product Certifications

UL

Nema type 250

cUL

FM Class 1 Division 2

Ordering and shipping details

Category

18206-MOMENTUM PROCESSORS,I/O BASES,CONN.

Discount Schedule

PC31

GTIN

3595862000550

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.4 in (6 cm)

Package 1 Width

7.09 in (18 cm)

Package 1 Length

10.2 in (26 cm)

Package weight(Lbs)

6.9 oz (197 g)