

Schneider Series Service Manual

171CCS76000

1. Description

The Schneider Electric 171CCS76000 is a processor adapter module within the Modicon Momentum series designed for efficient automation tasks. Offering 256 kilobytes of RAM, this device operates with a supply voltage of 5 volts DC.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type M1/M1E Processor Adapter Module
Product	Line Modicon Momentum
Part	Number 171CCS76000
Weight	1.00 lbs (0.45 kg)
Memory	Type Flash memory and Random Access Memory (RAM)
RAM	Capacity 256 kilobytes
Rated	Supply Voltage 5 Volts DC
Communication	Protocol Modbus
Register	Input/Output Processor Capacity 4,096 words (maximum)
Clock	Frequency 32 megahertz
Input/Output	Limit Processor Capacity 8,192 bits (maximum)
Word	Length 16 bit
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Number	of Communication Ports One RS-232C Modbus port and one Input/Output bus port
Scan	Time 0.63 milliseconds per kilobytes
Storage	Temperature -40 to 85°C (in a non-condensing environment)

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Technical specifications for 171CCS76000

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Description

Schneider Electric’s 171CCS76000 functions as an M1/M1E processor adapter module compatible with the Modicon Momentum platform. It utilizes both flash memory and RAM, providing a capacity of 256 kilobytes to support various programming and processing needs. This device is powered by a 5-volt DC rated supply voltage, ensuring compatibility with standard power sources.

The communication capabilities of this module include one RS-232C Modbus port and an input/output bus port, facilitating effective integration with other devices in industrial automation setups. Designed for responsiveness, it boasts a clock frequency of 32 megahertz, contributing to a scan time of 0.63 milliseconds per kilobyte, which is essential for timely processing in control applications.

For processing tasks, the module can accommodate up to 4,096 words for register input/output operations and can manage 8,192 bits for input/output limit processing. It operates efficiently within an ambient temperature range from 0 to 60°C in non-condensing environments, making it suitable for a variety of industrial conditions. Moreover, its storage temperature capabilities range from -40°C to 85°C, ensuring the module remains functional and reliable even in extreme environments. At a weight of 0.09 pounds (0.042 kilograms), this module is lightweight and easy to integrate into existing systems.

Range of Product

Modicon Momentum automation platform

Product or Component Type

M1/M1E processor adaptor

Software designation

Concept V2.6

Modsoft >= V2.5

ProWORX NxT V2.0

ProWORX 32

Communication Port Protocol

Modbus

Processor name

X 86 based (INTEL, AMD)

Clock frequency

32 MHz

Complementary

Discrete I/O processor capacity

2048 I/2048 O

Memory Type

256 kB flash

256 kB RAM

Memory description

Program memory 12 kB LL984

Program memory 160 kB IEC

Data 4 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

4096 words total

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 RS232C non isolated

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

FM Class 1 Division 2

cUL

Nema type 250

UL

Ordering and shipping details

Category

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

Discount Schedule

PC31

GTIN

3595861147812

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.2 in (5.5 cm)

Package 1 Width

7.09 in (18 cm)

Package 1 Length

10.2 in (26 cm)

Package weight(Lbs)

7.3 oz (206 g)