

Schneider Series Service Manual

171CCC76010

1. Description

The Schneider Electric 171CCC76010 is a processor adapter module designed for the Modicon Momentum series. This compact unit operates within specified temperature limits and communicates using the Modbus protocol.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type M1/M1E Processor Adapter Module
Product	Line Modicon Momentum
Part	Number 171CCC76010
Weight	1.00 lbs (0.45 kg)
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Clock	Frequency 32 megahertz
Program	Memory Capacity 18 and 240 kilobytes
Rated	Supply Voltage 5 Volts DC
Communication	Protocol Modbus protocol
Data	Memory Capacity 4 kilobytes
Input/Output	Limit Processor Capacity 8,192 bits (maximum)
Exact	Time For 1,000 Instructions 1 millisecond
Memory	Type Flash memory and Random Access Memory (RAM)
Memory	Capacity 512 kilobytes for both flash and RAM
Word	Length 16 bit
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Number	of Communication Ports One non-isolated RS-232C port and one Input/Output bus port

3. Product Information

The Schneider Electric 171CCC76010 is a processor adapter module designed for the Modicon Momentum series. This compact unit operates within specified temperature limits and communicates using the Modbus protocol.

Technical specifications for 171CCC76010

Manufacturer Schneider Electric

Product Type M1/M1E Processor Adapter Module

Product Line Modicon Momentum

Part Number 171CCC76010

Weight 1.00 lbs (0.45 kg)

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Exact Time For 1,000 Instructions 1 millisecond

Memory Type Flash memory and Random Access Memory (RAM)

Memory Capacity 512 kilobytes for both flash and RAM

Word Length 16 bit

Storage Temperature -40 to 85°C (in a non-condensing environment)

Number of Communication Ports One non-isolated RS-232C port and one Input/Output bus port

Description

The 171CCC76010 module from Schneider Electric is an adapter designed for M1 and M1E processors within the Modicon Momentum range. This device functions effectively in environments with temperatures varying from 0 to 60°C, provided that humidity levels do not lead to condensation. Operating with a clock frequency of 32 MHz, it supports program memory capacity options of 18 kilobytes and 240 kilobytes, making it suitable for a range of applications.

Data memory capacity for this module is established at 4 kilobytes, enabling necessary data storage for operational tasks. The device is capable of handling an input/output processor limit up to 8,192 bits. Notably, it executes 1,000 instructions in precisely 1 millisecond, which is efficient for real-time applications.

The module operates at a rated supply voltage of 5 VDC and utilizes flash memory along with Random Access Memory (RAM), providing a total memory capacity of 512 kilobytes. The word length for this module is standard at 16 bits, delivering compatibility with most data-handling operations.

For communications, it incorporates one non-isolated RS-232C port as well as a dedicated Input/Output bus port, accommodating versatile interfacing needs. In terms of environmental resilience, it also survives storage conditions ranging from -40°C to 85°C, ensuring reliability across various settings. Weighing in at only 0.09 pounds (0.042 kilograms), this lightweight module is designed for ease of integration into control 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

8192 I/8192 O

Memory Type

512 KB flash

512 KB RAM

Memory description

Program memory 18 kB LL984

Program memory 240 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 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
0.75 mm d.a
1 gn
Product Certifications
FM Class 1 Division 2
UL
Nema type 250
cUL
Ordering and shipping details
Category
18206-MOMENTUM PROCESSORS,I/O BASES,CONN.
Discount Schedule
PC31
GTIN
3595860010728
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)

7.6 oz (215 g)