

Schneider Series Service Manual

171CCC98030

1. Description

The Schneider Electric 171CCC98030 is a M1/M1E processor adapter module crafted for robust control applications. With a clock frequency of 50 megahertz, it ensures quick processing capabilities within operational settings.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type M1/M1E Processor Adapter Module
Product	Line Modicon Momentum
Part	Number 171CCC98030
EAN	3595862000543
Weight	1.00 lbs (0.45 kg)
Number	of Communication Ports One RS-485 port and one Ethernet port
Communication	Protocol Ethernet and Modbus
Word	Length 16 bit
Clock	Frequency 50 megahertz
Flash	Memory Capacity 1 megabyte
RAM	Capacity 544 kilobytes
Register	Input/Output Processor Capacity 26,048 words (maximum)
Discrete	Input/Output Processor Capacity 8,192 bits (maximum)
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Scan	Time 0.3 milliseconds per kilobyte
Rated	Supply Voltage 5 Volts DC

3. Product Information

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Technical specifications for 171CCC98030
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Storage Temperature -40 to 85°C (in a non-condensing environment)
Scan Time 0.3 milliseconds per kilobyte
Rated Supply Voltage 5 Volts DC
Description
The 171CCC98030 from Schneider Electric is an M1/M1E processor adapter module, engineered for effective integration in control environments. This module contains dual communication ports, specifically one RS-485 and another Ethernet port, facilitating flexibility in setup. It operates efficiently under ambient temperatures ranging from 0 to 60°C and can endure storage conditions of -40 to 85°C without compromising performance.
Equipped with a clock frequency of 50 megahertz, this module excels in processing speed. It offers a word length of 16 bits and ensures rapid functionalities with a scan time of 0.3 milliseconds per kilobyte. The communication capabilities support popular protocols such as Ethernet and Modbus, enhancing connectivity options.
The memory configuration is split between flash memory, allowing 1 megabyte of storage, and random access memory, capped at 544 kilobytes. The processing capacities are substantial, with the maximum register input/output processor capacity totaling 26,048 words and discrete input/output capacity reaching 8,192 bits. Operating from a supply voltage of 5 volts DC, the 171CCC98030 is a dependable choice for industrial automation tasks.
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
Modbus
Processor name
X 86 based (INTEL, AMD) IEC executive
Clock frequency
50 MHz
Complementary
Web services
Web page loader software tool
Web page loader
Rack viewer
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
I/O local on Modbus

Number of port
1 RS485
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
UL
cUL
FM Class 1 Division 2

Ordering and shipping details
Category
US1PC3118206

Discount Schedule
PC31
GTIN
3595862000543

Returnability

No
Country of origin
US
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)
7.1 oz (202 g)