

Schneider 140CPU11303C Manual

Brand	Schneider
Product Series	Schneider
Product Type	80186

Description

The 140CPU11303C is a processor module from Schneider Electric's Modicon Quantum series, featuring a robust 80186 microprocessor. It operates at a clock frequency of 20 MHz and includes 368 KB of internal RAM, ensuring sufficient memory for processing tasks.

Technical specifications for 140CPU11303C

Manufacturer Schneider Electric

Product Line Modicon Quantum

Part Number 140CPU11303C

EAN 3595861135833

Product Processor Module

Processor Type 80186

Clock Frequency 20 MHz

Internal RAM 368 KB

Watchdog Timer 250 ms

Clock Drift ± 8 s/day at 0 to 60°C

I/O Words 64 I/64 O remote, 64 I/64 O max local, 30 I/32 O distributed

I/O Words/Network 500 I/500 O distributed

Number of Drops 31 remote

Number of Networks 3 distributed, 2 remote

Battery Type Lithium 7 μ A 210 μ A

Battery Capacity 1.2 Ah

Battery Life 10 years

Number of Ports 1 Modbus Plus, 1 Modbus RS232

Communication Module Processor 2 NOM, NOE, CR, NMS

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Description

The processor module 140CPU11303C from the Modicon Quantum series by Schneider Electric utilizes an 80186 processor architecture, characterized by its efficient 20 MHz clock speed. This module is equipped with 368 KB of RAM to facilitate operational tasks across various industrial environments.

To ensure system reliability, the built-in watchdog timer is set to 250 milliseconds, providing essential monitoring for system stability. Timekeeping accuracy is maintained with a clock drift rating of ± 8 seconds per day when operating within a temperature range of 0 to 60 degrees Celsius.

This module supports a variety of I/O configurations, allowing for up to 64 input and output words on both remote and local systems, with an added capacity for 30 I/O words distributed across the network. The 140CPU11303C can manage 500 input and output words in a distributed setting, providing flexibility for extensive automation systems.

The architecture integrates up to 31 remote drops across three distributed and two remote networks, facilitating robust connectivity. A lithium battery is included, with a capacity of 1.2 Ah, designed to operate at a minimal current of 7 μ A and a maximum of 210 μ A. The

battery life expectancy is around 10 years, ensuring long-term operation without frequent maintenance.

Communication options are enhanced with one Modbus Plus and one RS232 port, contributing to its compatibility within existing networks. The communication module processor supports various configurations, including two NOM, NOE, CR, and NMS communications, further augmenting the system's versatility for diverse application requirements.

Range of Product

Modicon Quantum automation platform

Product or Component Type

Processor

Software name

Concept

ProWORX 32

Processor name

80186

Mathematical coprocessor

Without

Complementary

Clock frequency

20 MHz

Memory description

Internal RAM 368 kB

Exact time for 1 Kinstruction

0.3...1.4 ms LL984

Watchdog timer

250 ms

Clock drift

+/-8 s/day 32...140 °F (0...60 °C)

I/O words

30 I/32 O distributed

64 I/64 O max local

64 I/64 O remote

I/O words/network

500 I/500 O distributed

Drops/network

63 distributed

Number of drops

31 remote

Number of network

2 remote

3 distributed

Battery type

Lithium 7 μ A 210 μ A

Battery Capacity

1.2 Ah

Battery Life

10 year(s)

Number of port

1 Modbus RS232

1 Modbus Plus

Communication module processor capacity

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2 NOM, NOE, CR, NMS

Switch Function

Without key switch

Marking

CE

Bus current requirement

790 mA

Module format

Standard

Net Weight

0.7 lb(US) (0.3 kg)

Environment

Protective treatment

Conformal coating Humiseal 1A33

Product Certifications

cUL

FM Class 1 Division 2

Standards

CSA C22.2 No 142

UL 508

Resistance to electrostatic discharge

4 kV contact IEC 801-2

8 kV on air IEC 801-2

Resistance to electromagnetic fields

9.1 V/m (10 V/m) 80...2000 MHz/IEC 801-3

Ambient Air Temperature for Operation

32...140 °F (0...60 °C)

Ambient Air Temperature for Storage

-40...185 °F (-40...85 °C)

Relative Humidity

95 % without condensation

Operating altitude

<= 16404.2 ft (5000 m)

Ordering and shipping details

Category

18150-QUANTUM CONTROLLERS,HSBY,COMM.

Discount Schedule

PC21

GTIN

3595861135833

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.0 in (5.0 cm)

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Package 1 Width

6.5 in (16.5 cm)

Package 1 Length

12.2 in (31.0 cm)

Package weight(Lbs)

25.4 oz (720.0 g)

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