

Schneider Series Service Manual

140CPU65260C

1. Description

The Schneider Electric 140CPU65260C is a Unity Processor optimized for process control applications. It operates at a clock frequency of 266 MHz and supports functionality across two local racks.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Unity Processor
Product	Line Modicon
Part	Number 140CPU65260C
Clock	Frequency 266 MHz
Racks	2 local racks
Distributed	I/O Stations 63 stations
Communication	Service Ethernet Router
Checks	Process control
Bus	Current 2760 mA
Standards	HazLoc

3. Product Information

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Technical specifications for 140CPU65260C

Manufacturer Schneider Electric

Product Type Unity Processor

Product Line Modicon

Part Number 140CPU65260C

Clock Frequency 266 MHz

Racks 2 local racks

Distributed I/O Stations 63 stations

Communication Service Ethernet Router

Checks Process control

Bus Current 2760 mA

Standards HazLoc

Description

The 140CPU65260C is a processing unit from Schneider Electric’s Modicon series, specifically designed for use in control applications. With a clock speed of 266 MHz, it delivers quick data processing capabilities suitable for demanding tasks. This processor can manage up to two local racks, which allows for modular expansion based on system requirements. In addition, the unit supports communication with up to 63 distributed I/O stations, providing extensive flexibility in integration with various input and output devices. A built-in Ethernet router facilitates efficient networking and data exchange among connected devices. The processor is designed to conduct regular checks for process control, ensuring reliable operation under varied conditions.

It features a bus current specification of 2760 mA, thereby supplying adequate power for the operations it handles. Conforming to HazLoc standards indicates its suitability for hazardous locations, thus enhancing safety in critical environments. The overall dimensions of the processor measure 18.5 cm in width, 11 cm in depth, and 33 cm in height, with a total weight of 1.432 kg. This combination of features makes the 140CPU65260C a robust choice for applications requiring dependable processing in industrial settings.

Range of Product

Modicon Quantum automation platform

Product or Component Type

Unity processor

Complementary

Clock frequency

266 MHz

Number of slots

10

16

6

2

4

Number of racks

2 - local

Number of distributed I/O station

63 1 1 Modbus Plus

Number of remote I/O station

31 - 2 S908 remote I/O

31 - 2 ethernet Quantum remote I/O

31 - 2 ethernet X80 remote I/O

Discrete I/O number

8000 inputs, 8000 outputs - distributed - per network Modbus Plus

Unlimited (26 slots max) - local

Unlimited (31 drops of 28 slots max) - ethernet remote I/O

31744 inputs, 31744 outputs - S908 remote I/O

Analogue I/O number

500 inputs, 500 outputs - distributed - per network Modbus Plus

Unlimited (26 slots max) - local

Unlimited (31 drops of 28 slots max) - ethernet remote I/O

1984 inputs,1984 outputs - remote

Application specific I/O

Counter

High-speed interrupt inputs

Accurate time stamping

Serial link

Communication Service

Ethernet router

Number of optional modules

6 Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)

Maximum number of connections

1 USB

2 AS-Interface - distributed

4 AS-Interface - remote

6 Ethernet TCP/IP - local

6 Modbus Plus - local

6 Profibus DP - local

1 Modbus RS232/485 Modbus/ASCII)

Integrated connection type

1 Modbus Plus

1 Ethernet TCP/IP

1 Modbus

1 USB

Checks

Process control

Memory description

Expandable 7168 kB - program with PCMCIA card

Expandable 8 MB - file storage with PCMCIA card

Internal RAM 3072 kB

Switch Function

Key switch memory port on/off

Application structure

1 cyclic/periodic master task -

1 periodic fast task -

128 I/O interrupt tasks -

128 interrupt tasks -

32 timer interrupt tasks -

4 auxiliary tasks -

Number of instructions per ms

10.28 Kinst/ms 100 % Boolean

10.07 Kinst/ms 65 % Boolean and 35 % numerical

System overhead

0.2 ms fast task

1 ms master task

Bus current requirement

2760 mA

Local signalling

1 LED (green) for Ethernet activity (COM)

1 LED (red) for Ethernet collision

Electrical connection

1 female connector SUB-D 9 for connecting to the Modbus Plus network

1 connector RJ45 for connecting Ethernet network

1 connector RJ45 for connecting Modbus bus

Environment

Protective treatment

Conformal coating Humiseal 1A33

Product Certifications

Misc (Marine)

CSA

CE

GOST

ATEX zone 2

IEC-Ex

UL

Standards

HazLoc

Ordering and shipping details

Category

18150-QUANTUM CONTROLLERS,HSBY,COMM.

Discount Schedule

PC21

GTIN

3595863972658

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

4.3 in (11.0 cm)

Package 1 Width

7.5 in (19.0 cm)

Package 1 Length

12.8 in (32.5 cm)

Package weight(Lbs)

3.269 lb(US) (1.483 kg)