

Schneider Series Service Manual

140CPU65160S

1. Description

Unity processor Modicon Quantum - 1024 kB - 266 MHz

3. Product Information

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140CPU65160S

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

Unity safety processor

Software Designation

Unity Pro XL safety

Backup type

Lithium battery 990XCP98000

Complementary

Clock frequency

266 MHz

Number of slots

2

4

6

16

10

3

Number of racks

1 - local

Number of remote I/O station

31 - 1 remote

Discrete I/O number

Unlimited (13 slots max) - local - forbidden in Hot Standby application

31744 inputs, 31744 outputs - remote

Analogue I/O number

Unlimited (26 slots max) - local - forbidden in Hot Standby application

1984 inputs,1984 outputs - remote

Number of optional modules

6 Ethernet 140NOE77111

Maximum number of connections

1 Modbus Plus - local

1 Modbus RS232/485 Modbus/ASCII)

1 USB - local

6 Ethernet TCP/IP - local

Integrated connection type

1 Ethernet TCP/IP local

1 Modbus local

1 Modbus Plus local

1 USB local

Checks

Process control

Memory description

Expandable 7168 kB - program with PCMCIA card

Expandable 8 MB - file storage with PCMCIA card

Internal RAM 1024 kB

Switch Function

Key switch memory port on/off

Application structure

1 cyclic/periodic master task

Execution time per instruction

0.09...0.12 µs on word

0.105...0.15 µs Boolean

0.96...1.02 µs on fixed-point arithmetic

Execution time for 1 Kinstruction

5.03 65 % Boolean and 35 % numerical

5.14 100 % Boolean

System overhead

1.5 ms master task

Bus current requirement

2760 mA

Maximum supply current

90 A 140 °F (60 °C) lithium battery

60 µA lithium battery

[Us] rated supply voltage

3 V DC lithium battery

Battery Capacity

1200 Ah

Battery Life

10 year(s)

Display type

LCD 2 lines of 16 characters

Local signalling

1 LED (green) for Ethernet activity (COM)

1 LED (red) for Ethernet collision (ERR)

Electrical connection

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

1 female connector USB type B for connecting to PC

2 connectors RJ45 for connecting Modbus bus

Marking

CE

Environment

Product Certifications

CSA

C-tick

TÜV Rheinland (SIL3)

CSA HazLoc

Ordering and shipping details

Category

US1PC2118151

Discount Schedule

PC21

GTIN

3595863954067

Returnability

No

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

7.3 in (18.5 cm)

Package 1 Length

12.8 in (32.5 cm)

Package weight(Lbs)

3.06 lb(US) (1.39 kg)