

Schneider Service Manual

140CPU43412U

3. Product Information

Schneider Electric 140CPU43412U Picture

Unity processor Modicon Quantum - 1056 kB - 66 MHz

140CPU43412U

Specifications

Main

Range of Product

Modicon Quantum automation platform

Product or Component Type

Unity processor

Complementary

Clock frequency

66 MHz

Number of slots

2

4

10

16

6

Number of racks

2 - local

Number of distributed I/O station

63 1 3 Modbus Plus

Number of remote I/O station

31 - 2 S908 remote I/O

0 - 0 ethernet remote I/O

Discrete I/O number

31744 inputs, 31744 outputs - remote

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

Unlimited (26 slots max) - local

Analogue I/O number

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

1984 inputs,1984 outputs - S908 remote I/O

Unlimited (26 slots max) - local

Application specific I/O

Serial link

Counter

High-speed interrupt inputs

Accurate time stamping

Number of optional modules

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

Maximum number of connections

2 AS-Interface - distributed

2 Modbus RS232/485 Modbus/ASCII)

4 AS-Interface - remote

6 Ethernet TCP/IP - local

6 Modbus Plus - local

6 Profibus DP - local

Integrated connection type

1 Modbus Plus

2 Modbus

Checks

Process control

Memory description

Internal RAM 1056 kB

Switch Function

Key switch memory start/stop memory protection

Slide switch communication port : ASCII/RTU/Memory

Application structure

1 cyclic/periodic master task -

1 periodic fast task -
16 timer interrupt tasks -
64 I/O interrupt tasks -
64 interrupt tasks -
No auxiliary task -
Execution time per instruction
0.1...0.27 µs floating points
0.1...0.27 µs on fixed-point arithmetic
0.12...0.585 µs Boolean
0.12...0.585 µs on word
Number of instructions per ms
1.86 Kinst/ms 100 % Boolean
2.49 Kinst/ms 65 % Boolean and 35 % numerical
System overhead
0.2 ms fast task
1 ms master task
Bus current requirement
1800 mA
Local signalling
1 LED (green) for communications are active on the Modbus Plus port (Modbus Plus)
1 LED (green) for communications are active on the Modbus port (Modbus)
1 LED (green) for CPU has been started and is solving logic (RUN)
1 LED (green) for CPU has passed the power-up diagnostic tests (READY)
1 LED (orange) for write-protected memory (memory port)
1 LED (red) for battery needs replacing or is not present (BAT LOW)
1 LED (red) for communications error on the Modbus Plus port (ERROR A)
Electrical connection
1 female connector SUB-D 9 for connecting to the Modbus Plus network
2 female connectors SUB-D 9 for connecting to the Modbus bus
Environment
Product Certifications
CSA
CE
UL
Standards
HazLoc
Ordering and shipping details
Category
18150-QUANTUM CONTROLLERS,HSBY,COMM.
Discount Schedule
PC21
GTIN
3595863830408
Returnability
No
Country of origin
FR
Packing Units
Unit Type of Package 1
PCE
Nbr. of units in pkg.
1
Package 1 Height
1.77 in (4.5 cm)
Package 1 Width
6.10 in (15.5 cm)
Package 1 Length
12.20 in (31.0 cm)
Package weight(Lbs)

21.4 oz (607.0 g)