

Schneider 140CRP93100C Manual

Brand	Schneider
Product Series	Schneider
Product Type	RIO head-end adaptor module

Description

The 140CRP93100C is a Remote I/O head module from Schneider Electric's Modicon Quantum series, designed for effective communication in industrial applications. Featuring a fiber optic port, it ensures data transmission at rates up to 2.5 Mbps with a maximum connection distance of 500 meters, accommodating both daisy chain and star topologies for versatile installation options.

Technical specifications for 140CRP93100C

Manufacturer Schneider Electric

Product Line Modicon Quantum

Part Number 140CRP93100C

UPC 785901169901

Name of Product Remote I/O Head Module

Communication Port 1x Fiber Optic Port

Data Transmission Rate 2.5 Mbps

Connection Distance Max 500 meters via Fiber Optic

Supported Topology Daisy Chain, Star Topology

Mounting Backplane Slot

Power Consumption 5.4 W

Operating Voltage 5 VDC (via Backplane)

Protection Class IP20

Storage Temperature -40 °C to 85 °C

Relative Humidity 5% to 95% non-condensing

Operating Temperature 0 °C to 60 °C

Description

Schneider Electric's 140CRP93100C serves as a Remote I/O head module within the Modicon Quantum lineup. It utilizes a single fiber optic port to enable swift data exchanges with a rate of up to 2.5 Mbps. This feature facilitates reliable connections over distances reaching a maximum of 500 meters, effectively supporting both daisy chain and star topology configurations.

The module is mounted on a backplane slot and operates on a 5 VDC power supply sourced from the backplane. With a power consumption of approximately 5.4 watts, it is energy-efficient while fulfilling its communication role. This unit is classified under protection class IP20, indicating its suitability for indoor environments not directly exposed to dust or moisture.

Operational temperature conditions for the 140CRP93100C range from 0 °C to 60 °C, ensuring dependable functionality in typical industrial settings. Moreover, it can endure a broader storage temperature spectrum from -40 °C to 85 °C, making it resilient to extreme conditions during non-operational periods. Relative humidity tolerances extend from 5% to 95%, ensuring that it can function reliably in various humidity conditions without fear of condensation affecting performance.

Range of Product

Modicon Quantum automation platform

Product or Component Type

RIO head-end adaptor module
Complementary
Product Compatibility
Quantum 200/500/800 series
Symax (any mix)
Maximum drops/network
31
I/O words/drop
64 I/64 O
Type of cable
75 Ohm coaxial
Transmission Rate
1544 Mbit/s
Dynamic range
35 dB
Isolation voltage
500 V DC coaxial center and ground
Electrical connection
1 female connector F, elbowed with single cable
Diagnostics startup
LAN controller check
Memory check
Power up
Power dissipation in W
3 W 1 channel
Marking
CE
Bus current requirement
600 mA 1 channel
Module format
Standard
Environment
Protective treatment
Conformal coating Humiseal 1A33
Product Certifications
FM Class 1 Division 2
Standards
CSA C22.2 No 142
CUL
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...1000 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

www.AutoDCSTech.com

Operating altitude

<= 16404.2 ft (5000 m)

Ordering and shipping details

Category

US1PC2118155

Discount Schedule

PC21

GTIN

3595861136281

Returnability

No

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

1.8 in (4.5 cm)

Package 1 Width

6.7 in (17.0 cm)

Package 1 Length

12.2 in (31.0 cm)

Package weight(Lbs)

18.3 oz (520.0 g)

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