

Spectrum SCS-HCS9021Q-SFP-bt (C1D2)

Rugged Industrial 10G Media Converter with PoE++

Key Features

- 2 x 10/100/1000M/2.5G 802.3bt 90W TX PSE + 1 x 1G/2.5G/10G SFP
- 10G High Speed Connectivity
- IEEE 802.3bt 90W PoE++ Media Converter
- Power Input - Redundant Dual DC 52V-56V
- Supports PD Off-site Reboot (PDR)
- Supports Link Fault Pass-Through (LPT)
- Optional DIN-Rail or Wall Mountable
- IP31 Protection against vertical dripping water
- cMETus Approved for Hazloc Ratings:
 - Class I, Div 2, Groups ABCD, T4A
- Operating temperature range of
 - -40°C to +75°C (-40°F to +167°F)



Description

The Spectrum SCS-HCS9021Q-SFP-bt, Rugged Industrial 10G 802.3bt 90W Media Converter provides a reliable connection to your remote device in harsh environments. It supports off-site PoE device reboot function to avoid accidental disconnection occurring for your PD. It accepts input voltages from 52VDC to 56VDC power input. This unit is designed for high power and high-speed transmission demanding devices, such as, outdoor speed domes, explosion-proof camera, and a broad range of applications. It is designed for Security, Transportation and Telco application to extend your network distances. With its multi-purpose design, it can be Din-Rail or wall mounted. It is an ideal unit for IP surveillance, traffic monitoring and Security application in critical environment. It can tolerate -40°C to 75°C in harsh environments to maintain a reliable network..

Specifications

Spectrum SCS-HCS9021Q-SFP-bt

DISPLAY

LED Indicator	PWR 1 (Green): Power 1
	PWR 2 (Green): Power 2
	ON - Power is detected
	OFF - Power is not detected
	TX/RJ-45 port (T1, T2):
	2.5G (Green): LNK/ACT for 2.5G
	1G (Amber): LNK/ACT for 10/100/1000M
	ON: TX port is detected
	Flashing: TX data is transmitting/receiving
	PoE port (Green): T1, T2
	ON: PD is detected on designated port
	OFF: No PD is detected
	SFP Fiber port (Green): LNK/ACT for SFP
	On: FX port is detected
	Flashing: FX data is transmitting/receiving

DIP SWITCH

DIP 1 / DIP 2	DIP 1: Link Fault Pass Through (LPT) (Disabled/Enabled) DIP 2: PD Off-site Reboot (PDR) (Disabled/Enabled)
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TERMINAL BLOCK

Removable Terminal Block	Provide 4-pin terminal block Wire range: 0.34mm ² to 2.5mm ² Solid wire (AWG): 12-24 / 14-22 Stranded Wire (AWG): 12-24 / 14-22 Torque: 5lbs-In / 0.5NM / 0.56Nm Wire Strip Length: 7-8mm (0.28-0.32")
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NETWORK

Connector	2 x RJ45 10 / 100 / 1000 / 2500 BaseT(X) auto negotiation, Auto MDI / MDI-X function, Full / Half duplex, Support 802.3af/at/bt PSE 1 x 1G / 2.5G / 10G BaseX SFP
Cable	UTP / STP Cat.5e or above, max. 100m (330 ft.) EIA/TIA-568 (100m)
Protocol	CSMA / CD
PoE Pin Assignment	Pin 1 (V-), 2 (V-), 3 (V+), 6 (V+) Pin 4 (V+), 5 (V+), 7 (V-), 8 (V-)

POWER

Input	Redundant Dual DC 52V-56V
PoE Power	PoE power per port 90 Watts Maximum PoE power 180 Watts
Consumption	5.04W @ 56VDC full load, Without PoE
Overload Current Protection	Present
Reserve Polarity Protection	Present

STANDARDS

Ethernet	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet
	IEEE 802.3bz 2.5GBase-T
	IEEE 802.3z 1000Base-X Gigabit Ethernet
	IEEE 802.3ae 10Gbps Ethernet
PoE	IEEE 802.3x Flow Control and Back Pressure
	IEEE 802.3af PoE
	IEEE 802.3at PoE+
	IEEE 802.3bt PoE++

CERTIFICATIONS

Safety	LVD (EN62368-1) - UL 62368-1 (MET) UL 121201, cMETus (UL 60950-1)
EMC	CE, FCC, EN 55032 / 35
EMI	CISPR 32, FCC Part 15B Class B
EMS	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV
Vibration	EN 60068-2-6
Shock	EN 60068-2-27
Free Fall	En 60068-2-31

GENERAL

Material	Rugged Aluminum, IP31 Protection
Dimensions	L = 104.5mm (4.1") x W = 38.6mm (1.5") x D = 81.5mm (3.2")
Unit Weight	330 g (0.73 lbs)
Installation	DIN Rail and Wall Mount
Operating Temp	-40°C to 75°C (-40°F to 167°F)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temp	-40°C to 85°C (-40°F to 185°F)
MTBF (Mean Time Between Failure)	526,264.5176 Hours (Telcordia (Bellcore), GB) at 50°C
Switch Architecture	Back-plane (Switching Fabric): 30 Gbps
Data Processing	Store and Forward
Flow Control	IEEE 802.3x Flow Control and Back Pressure
Jumbo Frame	12KB
MAC Address Table Size	4K
Packet Buffer Size	8 Mbits
PD Off-site Reboot (PDR)	Disconnecting the fiber cable from your central switch prompts the PoE port to power cycle and reboot the remote powered device (PD)
Link Fault Pass Through (LPT)	Link Fault Pass Through (LPT) is when copper side signal lost or disconnect, fiber side link signal will actively off, when fiber side signal lost or disconnect, copper side link signal will also actively off

Dimensions

