rocstor

SolidConnect

User Manual

SolidConnect SCM20
Y10S010-B1

20-Port L2 Managed Gigabit PoE+ Switch,16-Port Gigabit PoE+ 2-Port Gigabit RJ45 & 2-Port Gigabit SFP Uplinks - Black
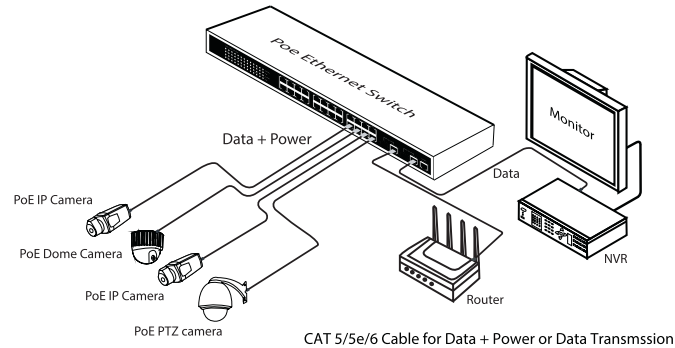
Package Content

Please check the following items before installation. If any items are missing, please contact Rocstor or the installing company.

• 1x SolidConnect SCM20
• 1x AC power cable
• 1x User manual

c(UL)us
LISTED
E502396
Model: S7218-16P-250

Application

The L2 Managed PoE Switch features 16 versatile Gigabit PoE ports (10M/100M/1G), along with RJ45 and SFP transceiver slots (1G) for flexible connections. It adheres to IEEE 802.3af/at standards, ensuring seamless integration. Its robust PoE power budget supports diverse applications, from cameras to VoIP and wireless access points, making it a reliable and efficient choice for modern networks.

Poe Ethernet Switch
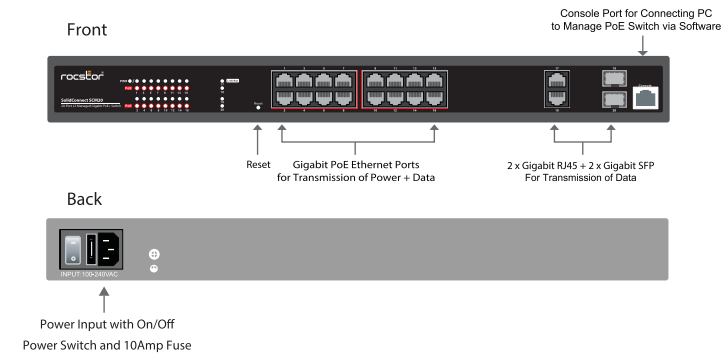Data + Power
Monitor
Data
PoE IP Camera
PoE Dome Camera
PoE IP Camera
NVR
PoE PTZ camera
Router
CAT 5/5e/6 Cable for Data + Power or Data Transmssion

Login Information

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
User Name	admin
Password	admin

Features

• Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, and IEEE 802.3at standards.
• Equipped with 16 10/100/1000Base-T ports, 2 Gigabit RJ45 ports, and 2 Gigabit SFP ports.
• Features 16 PoE+ injectors, offering a combined built-in power supply of 270W.
• Total 250W PoE power on 16 ports - 30W power per PoE port.
• Boasts a substantial backplane bandwidth of 40 Gbps.
• Supports IEEE 802.3x flow control for optimized data transmission.

Board Diagram

SolidConnect SCM20

Front

Console Port for Connecting PC to Manage PoE Switch via Software

Reset Gigabit PoE Ethernet Ports for Transmission of Power + Data
2 x Gigabit RJ45 + 2 x Gigabit SFP For Transmission of Data

Back

INPUT:100-240VAC

Power Input with On/Off Power Switch and 10Amp Fuse

Installation Steps

1- Before commencing installation, ensure to turn off both the power signal and the display device's power. It's crucial to note that installing while powered on can result in equipment damage.
2- Utilize a network cable to establish a connection between the PoE IP camera or other devices and the PoE Switch's 1-16 PoE ports.
3- Establish another network cable connection between the equipment and the uplink port, ensuring connectivity with the NVR or computer.
4- Connect the AC cable to the unit's power source.
5- For software management, employ a network cable to link the PC to the console port. Refer to the login information provided on page 1 to access and manage the PoE switch via software.
6- After ensuring correct installation, confirming the equipment's good condition, and verifying stable connections, you can proceed to power on the system.
7- Confirm that the PoE Switch is adequately powered and functioning as intended. This step ensures seamless operation and optimal performance.

By following these steps, you can perform a safe and effective installation of your equipment. Remember to exercise caution when dealing with electrical connections and refer to the manufacturer's instructions for specific details related to your product.
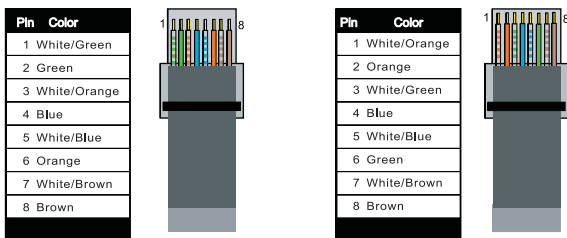
Troubleshooting

• Follow the manufacturer's installation guide for proper setup.
• Confirm RJ45 cable follows EIA/TIA 568A or 568B standard.
• Don't exceed 30W power per PoE port.
• Test with a functional 20 Port Gigabit L2 Managed PoE Switch for equipment issues.
• Total PoE power on 16 ports limited to 250W.
• In case the software login details are lost, hold the reset button on the PoE switch's front for 10 seconds. This action triggers the LED indicators on each port to flash, resetting the username and password to the default values on page 1 of this manual.

Plug Producing Method

Required Tools: Wire crimper, network tester, and RJ45 plug with wire sequence conforming to EIA/TIA568A or 568B.

Instructions:
1- Strip off 2cm of the insulating layer to expose the 8 pairs of UTP cable.
2- Separate and straighten the 8 pairs of UTP cable.
3- Arrange the 8 cables according to EIA/TIA568A or 568B standard.
4- Trim the cables, leaving 1.5cm of bare wire exposed.
5- Insert each cable into the appropriate pin of the RJ45 plug.
6- Utilize the wire crimper to securely crimp the RJ45 plug.
7- Repeat the process to create additional ends as needed.
8- Use the network tester to verify the cable's functionality.

Pin	Color
1	White/Green
2	Green
3	White/Orange
4	Blue
5	White/Blue
6	Orange
7	White/Brown
8	Brown

EIA/TIA 568A

Pin	Color
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown

EIA/TIA 568B

⚠ *When choosing an RJ45, ensure that if one end is EIA/TIA568A, the other end is also EIA/TIA568A. When choosing an RJ45, ensure that if one end is EIA/TIA568B, the other end is also EIA/TIA568B.*

Specification

Item			Description
Power	Power Supply		Built-in Power Supply
	Input Voltage		100–240 VAC
	PoE Budget		250W for PoE
Ethernet	Speed		1~16 Port: 10/100/1000 Mbps 17~18 Port: 10/100/1000 Mbps Ethernet Port 19~20 Port: 1000 Mbps SFP Port (SFP support optical module rates: 1.25 Gbps)
	Transmission Distance		328 ft. (100 meters) for RJ45 SFP optical module is optional, and the transmission distance depends on the optical module
Network Switch	Ethernet Standards		IEEE 802.3 / 802.3u / 802.3x / 802.3ab / 802.3af / 802.3at
	Switching Capacity		40 Gbps
	Transfer Rate		14,880 pps for 10 Mbps
			148,800 pps for 100 Mbps
			1,488,000 pps for 1000 Mbps
	MAC Address		8K MAC address table
LINK / ACT indicator	On	Green	The port connection speed is 1000 Mbps
		Orange	The port connection speed is 10/100 Mbps
	Blinks	-	The port is receiving or transmitting data
	Off	-	The port is not linked successfully with the device
PoE Indicator	On	Green	Power device is connected
	Off	-	Power device is not connected or power forwarding fails
	PoE pin assignment		V+ (RJ45 Pin 1, 2), V- (RJ45 Pin 3, 6)
Environment	Working Temperature		0°C~40°C (32°F~104°F)
	Storage Temperature		-40°C~70°C (-40°F~158°F)
	Humidity Non-Condensing		0~85%
	INDOOR USE ONLY		
Mechanical	Dimensions L x W x H		17.3" x 7.8" x 1.7"
			440 x 200 x 44 mm
	Color		Black

Specifications are subject to change without prior notice.

Warranty Information

This product is backed by a (5) five-year warranty. Rocstor warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. Rocstor does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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Support

Technical support is available to all the registered users of Rocstor products.

Technical Support / RMA
Hours: 9:00 am - 5:00 pm PST
Monday to Friday (except holidays)

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