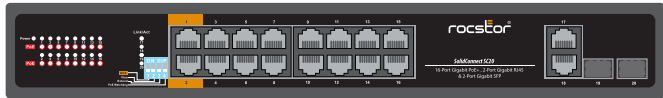


SolidConnect



User Manual

SolidConnect SC20
Y10S007-B1

20-Port Switch - 16-Port PoE+ Gigabit Unmanaged Ethernet Switch,
2-Port Gigabit RJ45 & 2-Port Gigabit SFP Uplink port - Black

Package Content

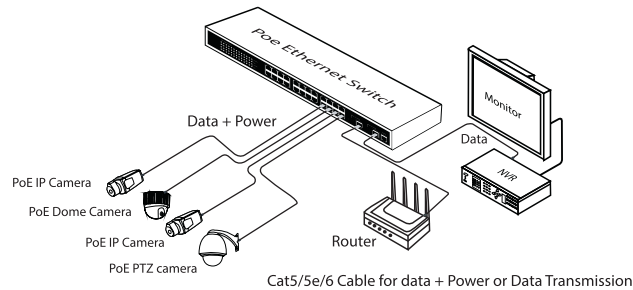
Please check the following items before installation. If any items are missing, please contact Rocstor or the installing company.

- 1x SolidConnect SC20
- 1x AC power cable
- 1x User manual



Application

The SolidConnect SC20 is a 20 Port/16 PoE Switch that offers seamless integration to enhance security monitoring. It delivers gigabit packet forwarding capability and fast Ethernet transfer rates, optimizing bandwidth to ensure crystal-clear images and smooth transmission, even for high-definition video.



Features

The SolidConnect SC20 switch offers five modes:

Extend Mode : Up to 250 m data and power transmission range

QOS : Priority Mode ensures high priority of ports 1–2 to guarantee the quality of the sensitive applications

Vlan :It allows one-click client traffic separation for higher security and performance

PoE Watchdog : Automatically reboots your dropped or unresponsive PoE-powered devices with PoE Auto Recovery.

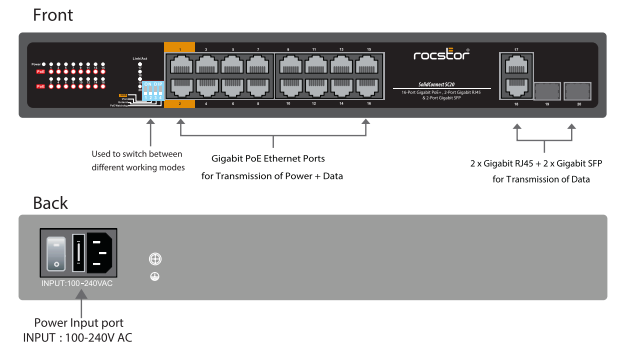
- Conforms to IEEE 802.3, IEEE 802.3u, IEEE 802.3af, and IEEE 802.3at.
- Provides 16 10/100/1000Base-T ports, 2 Gigabit RJ45, and 2 Gigabit SFP.
- 16 PoE+ injectors with a total of 250W built-in power supply.
- High backplane bandwidth of 40 Gbps.
- Includes IEEE 802.3x flow control.

Simplify your network setup, ensure secure communication, and experience efficient performance with our AI functions

Normal Mode ,QOS Mode, Vlan Mode, Extend Mode, PoE Watchdog Mode

Board Diagram

SolidConnect SC20 20-Port Gigabit PoE Switch



Installation Steps

- 1- Prior to installation, ensure both the power signal and the display device's power are switched off to avoid equipment damage during the installation process.
- 2- Utilize a network cable to connect the PoE IP camera or other devices to one of the 1-16 PoE ports available on the PoE Switch.
- 3- Connect the equipment to the uplink port and the NVR or computer using a network cable.
- 4- Attach the AC cable to the unit.
- 5- After completing the connections, verify the accuracy of the installation, ensure the equipment is in good condition, and confirm stable connections. Once satisfied, proceed to power on the system.
- 6- Verify that the PoE Switch has adequate power supply and is functioning correctly before proceeding.

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

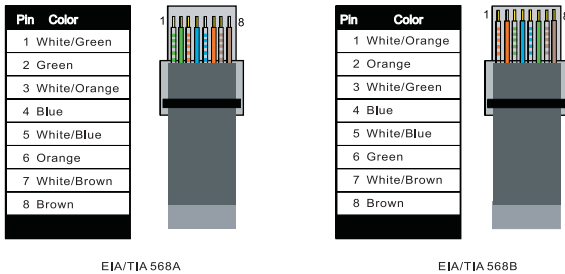
- Please ensure that the equipment is installed following the manufacturer's installation guide.
- Verify that the RJ45 cable order complies with either the EIA/TIA 568A or 568B standard.
- Please be mindful that each PoE port can only supply a maximum power of less than 30W. Avoid connecting PoE equipment that requires power over 30W.
- In case of any suspicion of equipment damage, consider replacing it with a fully functioning 20 Port PoE Ethernet Switch for testing purposes.
- Note that the total PoE power among all 16 PoE ports is restricted to 250W. Exercise caution to stay within this power limitation.

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.



! 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	1~18 Port: 10/100/1000 Mbps 19~20 Port: Gigabit SFP	
	Transmission Distance	1~18 Port: 328 ft. (100 meters) 19~20 Port: Transmission distances vary with type of SFP module used. SFP module not included	
Network Switch	Ethernet Standards	IEEE 802.3 / 802.3u / 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	On	Green	The port is connected
	Blinks	-	The port is receiving or transmitting data
	Off	-	The port is not linked successfully with the device
PoE	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%	
Mechanical	Dimensions L x W x H	12.6" x 8.2" x 1.7"	
	Color	320 x 207 x 44 mm 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)

Tell: +1 (818) 727-7000 (National and international)

Fax: +1 (818) 875-0002

Email: support@Rocstor.com

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