

ROLINE Gigabit Ethernet Switch, 6x (5xGbE + 1x Gbic(SFP), 4x PoE+)

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User Manual

1. Product Overview

This is a 6-port Gigabit Ethernet Switch with 4 PoE+ PSE ports and 1 dual-speed SFP slot. It delivers data and electric power via Ethernet cables to PoE devices such as IP cameras and wireless access points. It supports both PoE and PoE+ devices with 85W power budget. With compact and lightweight housing design, the switch is suitable for SOHO and small business offices.

2. Product Features

- Provides five 10/100/1000Mbps RJ-45 ports and one dual-speed SFP slot
- Four 802.3at-compliant PoE PSE ports
- All copper ports support auto-negotiation and auto-MDI/MDI-X detection
- Supports IEEE 802.3x flow control
- Supports jumbo frame length up to 9K bytes at full wire speed forwarding
- Supports IEEE 802.3az Energy Efficient Ethernet
- Supports IEEE 802.1p QoS classification
- Supports loop detection

3. Hardware Overview



Note: Please turn off the power switch when inserting the DC plug.

4. LED Description

Following is the LED description:

LED	Color	Status	Operation
Power	Green	On	The switch is powered on.
LAN Link/Activity	Green	On	The port is operating at 1000 Mbps.
		Blink	Transmitting / Receiving data at 1000M
	Amber	On	The port is operating at 10/100 Mbps.
		Blink	Transmitting / Receiving data at 10/100M
SFP Link/Activity	Green	On	The port is operating at 1000 Mbps.
	Amber	On	The port is operating at 100 Mbps.
	Green / Amber	Blink	Transmitting / Receiving data
PoE	Amber	On	Delivering Power to PoE device

5. Loop Detection

When a loop occurrence is detected, the associated port with smaller port number will be blocked by the switch. Upon trouble-shooting the blocked port can be easily identified because it is cable connected and has a port link down function. If the loop is fixed, the blocked port can be released by re-plugging the cable. The port is recovered to operate.

6. QoS

Each received packet is examined and classified into one of eight priority classes and uses User Priority tag values in the received IEEE 802.1Q packet to map to one priority class.

The egress port policy as follows:

Packets Tag priority*		Weight
0	lowest	1
1		2
2		
3		4
4		
5		
6		8
7	highest ▼	

*: Priority Field in Tagged LAN frames.

7. Package Contents

- The switch unit
- One Power adapter and One Power cord
- Four Rubber feet, Wall mount kit and Magnet kit

8. Technical Specifications

Specifications	
Standard	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T, IEEE 802.3x Flow Control, IEEE 802.3af PoE, IEEE 802.3at PoE+
Network Ports	5 10/100/1000Mbps Gigabit copper ports Shielded RJ-45, auto-negotiation, auto-MDI/MDI-X support 1 100Mbps or 1000Mbps fiber SFP port: SFP supports standard SFP fiber transceiver installation
Network Cables	10/100/1000Mbps Copper: Cat. 5, 5e or higher up to 100m 100/1000Mbps Fiber: MMF 50/125 μ m, 62.5/125 μ m, SMF 9/125 μ m
Power over Ethernet	PSE on Port 1 ~ Port 4, 30W max. per port output PSE pin 1/2 - Positive DC, Pin 3/6 - Negative DC
PoE Power Budget	85W max. shared by 4 PSE ports
PoE Protection	Incompliant PD detection, Disconnection, Over-current, Short-circuit
MAC Address Table	2K entries
Buffer Memory	128K bytes
Jumbo Frame	Up to 9K bytes
Dimension	147 x 106 x 28mm (W x D x H)
Power Consumption	5W max.(without PoE), 90W max.(with PoE full output)
Power	External Power 54V/1.67A
Temperature	Operating: 0°C ~ 40°C, Storage: -20°C ~ 70°C
Humidity	5% ~ 90% (non-condensing)

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