



10/100Mbps Switch
RFS-105 / RFS-108
User Manual



Introduction

The RFS-105 / RFS-108 is a high-performance Fast Ethernet switch, with all ports capable of 10 or 100Mbps auto-negotiation operation.

Store-and-forward switching mode promises the low latency plus eliminates all the network errors, including runt and CRC error packets. To work under full-duplex mode, transmission and reception of the frames can occur simultaneously without causing collisions as well as double the network bandwidth.

The switch is plug-n-play with no required software to configure and fully compliant with all kinds of network protocols. Moreover, the rich diagnostic LEDs on the front-panel can provide the operating status of individual port and whole system.

RFS-105 Features:

- 5x 10/100Mbps RJ-45 Nway ports
- Supports 802.3az Green Ethernet: Detecting port usage power saving and cable length power saving
- Supports NWay protocol for speed (10/100Mbps) and duplex mode (Half/Full) auto-detection
- Supports MDI/MDI-X auto crossover
- Supports full and half duplex operation on all ports
- Supports back-pressure (half duplex) and flow control (IEEE 802.3x)
- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture filters fragment & CRC error packets
- Supports 1K MAC address entries in whole system
- 384K bits (48KB) buffer memory
- FCC Class B, CE

RFS-108 Features:

- 8 x 10/100Mbps RJ-45 Nway ports
- Supports 802.3az Green Ethernet: Detecting port usage power saving and cable length power saving
- Supports NWay protocol for speed (10/100Mbps) and duplex mode (Half/Full) auto-detection
- Supports MDI/MDI-X auto crossover
- Supports full and half duplex operation on all ports
- Supports back-pressure (half duplex) and flow control (IEEE 802.3x)
- Supports 802.11p QoS data management
- Wire-speed packet filtering and forwarding rate
- Store-and-forward architecture filters fragment & CRC error packets
- Supports 1K MAC address entries in whole system
- 768K bits (96KB) buffer memory
- FCC Class B, CE

Before you start to install the switch, check the following contents in this package :

- A 5 port RFS-105 switch or a 8 port RFS-108 switch
- One external power adapter
- User's manual

LED Definition

Please refer to the following table for LED definition



5port



8port

LED	Status	Operation
Power	Steady Green	Power is on
	Off	Power is off
Link/Act	Steady Green	The port is connected
	Blinking Green	The port is transmitting/receiving data.
	Off	No connection

Stations Connection

Connect each station to the switch by twisted-pair cable. Plug one RJ-45 connector into a RJ-45 port of the switch, and plug the other RJ-45 connector into the station's network adapter. Power on the switch and then system is ready. For cable selection, refer to the following table.

Switches Connection

In making a switch interconnection, you could use any port to connect another switch with straight or crossover cable. As all the ports support auto MDI / MDI-X function, using a straight cable to make a switch-to-switch connection is allowed.

For cable selection, refer to the following table :

Network Speed	Cable Type	Max. Length
10Mbps	Cat. 3, 4, 5 UTP/STP	100 meters
100Mbps	Cat. 5 UTP/STP	100 meters

Specification

RFS-105 Spec

Switch Type	Desktop
Standards	802.3 Ethernet, 802.3u Fast Ethernet, 802.3x Full-Duplex Flow Control, 802.3az Energy Efficient Ethernet
Network Management Type	Unmanaged
Ports	5 x RJ45
Speed	10/100Mbps
MAC Address Table	1K
Buffer Memory	384K bits (48KB)
Switching Method	Store and Forward
LEDs	System: Power Port: Link/Act
Power	External Power 5V0.6A
Dimensions	4.76" x 2.95" x 1.02" (121 x 75 x 26 mm)
Weight	0.57 lbs. (258.55g)
Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% - 90%, Non-condensing

RFS-108 Spec

Switch Type	Desktop
Standards	802.3 Ethernet, 802.3u Fast Ethernet, 802.3x Full-Duplex Flow Control, 802.3az Energy Efficient Ethernet, 802.1p QoS data management
Network Management Type	Unmanaged
Ports	8 x RJ45
Speed	10/100Mbps
MAC Address Table	1K
Buffer Memory	768K bits (96KB)
Switching Method	Store and Forward
LEDs	System: Power Port: Link/Act
Power	External Power 5V0.6A
Dimensions	6.08" x 2.95" x 1.02" (155 x 75 x 26 mm)
Weight	0.76 lbs. (345g)
Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% - 90%, Non-condensing

FCC Certifications



This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE Mark Warning



This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class B for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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