The MikroTik S-RJ01 Copper SFP Module Datasheet

Overview

The MikroTik S-RJ01 is an RJ45 SFP 10/100/1000M copper module, compatible with most Gigabit SFP ports available on various networking devices. It lets a device with an SFP cage connect directly to a standard copper Ethernet network.

The module supports up to 1.25 Gb/s bi-directional data links and 100 m transmission over unshielded cable. It is compliant with IEEE Std 802.3-2002 and the SFP MSA, is RoHS compliant, and runs from a single +3.3 V supply in a hot-pluggable SFP footprint.

QUICK SPEC

Figure 1: APPEARANCE OF S-RJ01



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TABLE 1: Quick Specs

Model	S-RJ01
Type	RJ45 SFP copper module
Data Rate	10/100/1000M, up to 1.25 Gb/s
Connector	RJ-45
Distance	100 m over unshielded cable
Power Supply	+3.3 V single supply
Case Temperature	0°C to +85°C

Product Details

FIGURE 2: COMPATIBLE MIKROTIK PLATFORMS



Cloud Core Routers | Cloud Router Switches | RB2011 Series | RB260GS Series

The S-RJ01 is not compatible with the SFP+ ports in the following models: CRS226 and CRS210.

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FIGURE 3: RJ-45 CONNECTOR END OF S-RJ01



MikroTik S-RJ01 provides these features:

1. 10/100/1000M Copper over an SFP Port

The RJ45 SFP module supports 10/100/1000M operation with up to 1.25 Gb/s bi-directional data links, so a Gigabit SFP port can connect to a copper Ethernet device without a separate media converter.

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2. 100 m Transmission

The module supports 100 m transmission over unshielded cable through its RJ-45 connector.

3. Standards Compliance

The S-RJ01 is compliant with IEEE Std 802.3-2002 and the SFP MSA, and it is RoHS compliant.

4. Broad Compatibility

The module works with most Gigabit SFP ports and is listed for MikroTik Cloud Core Routers, Cloud Router Switches, the RB2011 series, and the RB260GS series. It is not compatible with the SFP+ ports in the CRS226 and CRS210.

5. Hot-Pluggable SFP Footprint

The standard hot-pluggable SFP footprint allows the module to be installed or replaced without powering the device down.

6. Simple Power Requirements

The module runs from a single +3.3 V power supply.

7. Extended Temperature Range and PHY Access

The extended case temperature range is 0°C to +85°C, and the physical layer IC can be accessed through a 2-wire serial bus.

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Specification

Parameter	Specification
Model	MikroTik S-RJ01
Device Type	RJ45 SFP copper module
Data Rate	10/100/1000M; up to 1.25 Gb/s bi-directional
Connector	RJ-45
Transmission Distance	100 m over unshielded cable
Standards	IEEE Std 802.3-2002, SFP MSA
Form Factor	Hot-pluggable SFP footprint
Power Supply	+3.3 V single supply
Management Interface	Access to physical layer IC via 2-wire serial bus
Case Temperature Range	0°C to +85°C (extended)
Compliance	RoHS
Compatible With	Cloud Core Routers, Cloud Router Switches, RB2011 series, RB260GS series
Not Compatible With	SFP+ ports of CRS226 and CRS210

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