

MikroTik SFP module compatibility table

Contents [\[hide\]](#)

1

This document clarifies compatibility between MikroTik made SFP modules and MikroTik RouterBOARD hardware

2

S-RJ01

3

S+RJ10

4

SFP+ interface compatibility settings with SFP optical transceivers

5

SFP interface compatibility with 100M fiber links

This document clarifies compatibility between MikroTik made SFP modules and MikroTik RouterBOARD hardware

Model	S-RJ01	S+RJ10	S-85DLC05D	S-31DLC20D	S-3553LC20D	S+85DLC03D	S+31DLC10D	S+2332LC10D	SFP CWDm	SFP+ 1m/3m DAC	S+AO0005
CCR1072-1G-8S+	+	+	+	+	+	+	+	+	+	+	+
CCR1036-12G-4S	+	-	+	+	+	+	+	+	+	+	+
CCR1036-8G-2S+	+	+	+	+	+	+	+	+	+	+	+
CCR1016-12S-1S+	+ 1	+	+ 1	+ 1	+ 1	+	+	+	+	+	+
CCR1009-7G-1C	+	-	+	+	+	+	+	+	+	+	+
CCR1009-8G-1S-1S+	+	+	+	+	+	+	+	+	+	+	+
CCR1009-7G-1C-1S+	+	+	+	+	+	+	+	+	+	+	+
CRS125-24G-1S	+	-	+	+	+	+	+	+	+	+	+
CSS/CRS305-1G-4S+	+	+	+	+	+	+	+	+	+	+	+
CSS/CRS309-1G-8S+	+	+ 5	+	+	+	+	+	+	+	+	+
CSS/CRS326-24G-2S+	+	+	+	+	+	+	+	+	+	+	+
CSS/CRS317-1G-16S+	+	+ 3	+	+	+	+	+	+	+	+	+
CSS/CRS328-4C-20S-4S+	+	+	+	+	+	+	+	+	+	+	+
CSS/CRS328-24P-4S+	+	+	+	+	+	+	+	+	+	+	+
CRS226-24G-2S+	-	+	+ 2	+ 2	+ 2	+	+	+	+	+	+
CRS212-1G-10S-1S+	+ 1	+	+ 1	+ 1	+ 1	+	+	+	+	+	+
CRS210-8G-2S+	-	+	+ 2	+ 2	+ 2	+	+	+	+	+	+
CRS112-8G-4S/8P-4S	+	-	+	+	+	+	+	+	+	+	+
CRS109-8G-1S	+	-	+	+	+	+	+	+	+	+	+
CRS106-1C-5S/FiberBox	+	-	+	+	+	+	+	+	+	+	+
RB3011	+	-	+	+	+	+	+	+	+	+	+
RB2011	+	-	+	+	+	+	+	+	+	+	+
RB260	+	-	+	+	+	+	+	+	+	+	+
RB922/921	+	-	+	+	+	+	+	+	+	+	+
RB953GS	+	-	+	+	+	+	+	+	+	+	+
hAP AC	+	-	+	+	+	+	+	+	+	+	+
hEX PoE/PowerBox Pro	+	-	+	+	+	+	+	+	+	+	+
hEX S	+	-	+	+	+	+	+	+	+	+	+
FTC	+	-	+	+	+	+	+	+	+	+	+

Legend	
Color codes:	Not supported Check notes below

NOTES:

1. CCR1016-12S-1S+ / CRS212-1G-10S-1S+ -- SFP+1 interface does not work on any other link speed than 10G (does not support 1.25G fiber optic transceivers)
2. CRS226 / CRS210 -- Only SFP+1 interface supports SFP 1.25G fiber optic transceivers, SFP+2 works only with 10G transceivers/links.
3. CSS/CRS317-1G-16S+ -- power controller supports up to 10 simultaneous S+RJ10 modules.
4. RB4011 -- Only active Direct Attach Cables (MikroTik S+AO0005) are supported. Passive DAC (MikroTik S+DA0001/S+DA0003) are not supported.
5. CSS/CRS309-1G-8S+ -- 8x S+RJ10 are supported if PoE-in Voltage >30V. Up 4x S+RJ10 are supported when PoE-in Voltage = 24V.



Warning: Proper support for S-RJ01 modules on CCR1072-1G-8S+ is enabled only starting with v6.34rc software builds.

S-RJ01

Table that states in what link rates if mounted in specific MikroTik devices S-RJ01 module will be able to work. Use these modules only with auto-negotiation enabled, forced link speeds are not supported. They will negotiate to correct duplex and highest possible rate.

Model	1000	100	10
RB4011	+	+	+
RB3011	+	+	+
RB922	+	+	+
RB921	+	+	+
hEX PoE	+	+	+
RB953	+/+	+/-	+/-
RB2011	+	-	-
RB260	+	-	-
FTC	+	-	-
CRS106	+	+	+
CRS112	+	+	+
CRS125/CRS109	+	+	+
CRS212	+	+	+
CRS226/CRS210	-	-	-
CSS/CRS305-1G-4S+	+	+	+
CSS/CRS309-1G-8S+	+	+	+
CSS/CRS326-24G-2S+	+	+	+
CSS/CRS328-4C-20S-4S+	+	+	+
CSS/CRS328-24P-4S+	+	+	+
CSS/CRS317-1G-16S+	+	+	+
CCR1009	+/+	+/+	+/+
CCR1016-12S-1S+	+	+	+
CCR1036-12G-4S	+	+	+
CCR1036-8G-2S+	+	+	+
CCR1072-1G-8S+	+	+	+

Notes:

- Rate works fine: +
- Rate does not work: -
- RB953: SFP2/SFP1
- CCR1009: SFP+/SFP

S+RJ10

Use these modules only in 10G SFP+ ports with auto-negotiation enabled, forced link speeds are not supported. They will negotiate to correct duplex and highest possible rate. Be aware of [S+RJ10 General Guidance](#).

Speed	Cable type	S+RJ10 to other brand	S+RJ10 to S+RJ10
100BASE-T 100BASE-T	Cat5e/6 Cat5e/6	100m 100m	100m 100m
1000BASE-T	Cat5e/6	100m	200m
2.5GBASE-T	Cat5e/6 UTP	100m	170m
2.5GBASE-T	Cat5e/6 STP	100m	200m
5GBASE-T	Cat5e/6	100m	100m
10GBASE-T	Cat6/7	30m	30m



Note: Negotiated speed highly depends on quality and length of the cables that are used.

The new revision of S+RJ10 now supports jumbo frames up to 10218 bytes at link speed 2.5Gbps, 5Gbps and 10Gbps.

Link Speed	Max MTU
10Gbps	10218
5Gbps	10218
2.5Gbps	10218
1000Mbps	1504
100Mbps	1504
10Mbps	1504

SFP+ interface compatibility settings with SFP optical transceivers

For MikroTik devices with SFP+ interface that support both 10G and 1G link rate following settings are needed to be set on both linked devices for required interfaces. These settings only relate when optical SFP transceivers are used. In order to get them working in 1G link rate, use the following configuration:

- auto-negotiation disabled
- port speed 1G
- FD

Devices which SFP+ ports support 1G links:

- CCR1072-1G-8S+ - All SFP+ interfaces can be used in 1G mode if required.
- CCR1036-8G-2S+ - All SFP+ interfaces can be used in 1G mode if required.
- CCR1009-8G-1S-1S+ - All SFP+ interfaces can be used in 1G mode if required.
- CCR1009-7G-1C-1S+ - All SFP+ interfaces can be used in 1G mode if required.
- CSS326-24G-2S+RM - All SFP+ interfaces can be used in 1G mode if required.
- CRS3xx series switches - All SFP+ interfaces can be used in 1G mode if required.
- RB4011 series - SFP+1 interface can be used in 1G mode if required.
- CRS226-24G-2S+ - Only SFP+1 supports 1G link speed, SFP+2 is for 10G links only.
- CRS210-8G-2S+ - Only SFP+1 supports 1G link speed, SFP+2 is for 10G links only.

Devices which SFP+ interfaces can be used only for 10G links:

- CCR1016-12S-1S+
- CRS212-1G-10S-1S+

SFP interface compatibility with 100M fiber links

Combo interface SFP part on below mentioned devices is compatible with [fast ethernet fiber](#) links.

Compatible devices:

- CCR1009-7G-1C (combo1-sfp)
- CCR1009-7G-1C-1S+ (combo1-sfp)
- CRS106-1C-5S (combo1-sfp)
- CRS328-4C-20S-4S+ (combo1-sfp; combo2-sfp; combo3-sfp; combo4-sfp)