



Flexi License

Flexi license allows you to select the port of your choice . When you buy a chassis few ports are enabled for free of charge (4*1G ports are enabled by default). With this license in place, you can choose the ports of your choice to activate additional 4*10G ports on the chassis.

By deactivating the enabled port, you can activate other ports of your choice.



Note Flexi Licensing is applicable for 10G ports only.



Note This license upgrade will not disturb the existing port state.

This document describes about flexi license on Cisco ASR 920 Series Routers beginning with Cisco IOS XE 3.18.0S

- [Prerequisites for Flexi Licensing, on page 1](#)
- [Flexi license restrictions for dual rate ports, on page 1](#)
- [Information About Flexi Licensing, on page 2](#)

Prerequisites for Flexi Licensing

Before activating this license, you must obtain and install the license. For information on obtaining and installing licenses, see [Configuring the Cisco IOS Software Activation Feature](#).

Flexi license restrictions for dual rate ports

- If 10G license is installed for a dual rate port and SFP is inserted in that port, the interface will come up in 1G mode.
- If 10G license is installed for a dual rate port and SFP+ is inserted in that port, the interface will come up in 10G mode.
- If 10G license is **not** installed for particular port and SFP is inserted, the interface will come up in 1G mode.

- If there is a 10G license and SFP+ is inserted in the chassis(for the ports Te0/0/12-Te0/0/15), Te0/0/12–Te0/0/15 will come up in 10G mode.
- If sufficient 10G licenses or Bulk Licenses are not available for a port and an SFP+ is inserted, the 10G mode is not enabled. The interface will be in 'link down state' and the following system warning message will be generated. Warning: SFP+ inserted at port X tengig license not in use

Information About Flexi Licensing

With this license, you can now choose the ports of your choice to activate 6, 12, or 4 ports on the chassis.

The following table displays the details of the licensed and nonlicensed ports on different models of Cisco ASR 920 series.

Cisco Cisco ASR 920 Series models	1G ports	10G ports
ASR-920-4SZ-A ASR-920-4SZ-D	All 6 ports operate in 1G mode by default and no license is required to activate these ports.	4 SFP + operates in 10G mode depending on the license count. License count 1: Any 2 SFP+ operates in 10G mode. License count 2: All 4 SFP+ (ports 2–5) operates in 10G mode.
ASR-920-12CZ-A ASR-920-12CZ-D	Any 6 ports and remaining 6 port s are enabled after purchasing license. By default Te0/0/12 & Te0/0/13 operates as 1G mode if 10 G license is not in use	2 SFP+ operates in 10G mode.
ASR-920-10SZ-PD	Any 6 ports. (By default Te0/0/10 & Te0/0/11 operates as 1G mode if 10 G license is not in use) and the remaining 4 ports can be activated in 1G mode.	2 SFP+ operates in 10 G mode.
ASR-920-24SZ-IM	Any 12 ports 0–15 and the remaining ports are enabled in 1G mode.	SFP+ Ports (24–27) are enabled based on license count available: License count 1: Any two ports are enabled. License count 2: All ports are enabled.

Cisco Cisco ASR 920 Series models	1G ports	10G ports
ASR-920-24TZ-M	Any 12 ports and the remaining ports are enabled in 1G mode.	SFP+ Ports (24–27) are enabled based on license count available: License count 1: Any two ports are enabled. License count 2: All ports are enabled.
ASR-920-24SZ-M	Any 12 ports and the remaining ports are enabled in 1G mode.	SFP+ Ports (24–27) are enabled based on license count available: License count 1: Any two ports are enabled. License count 2: All ports are enabled.
ASR-920-12SZ-IM	Any of the four ports 0–15 is enabled as 1G port. Ports are enabled depending on license count available: License count 1: 6 ports out of 12 remaining in 1G mode is enabled. License count 2: All the ports are enabled in 1G mode.	SFP+ Ports any two is enabled based on license count available: License count 1: Any two ports are enabled. License count 2: Remaining 2-10G is enabled.
ASR-920-8S4Z-PD	Any four ports are enabled as 1G port. Remaining four ports are enabled in 1G mode after purchasing license (By default Te0/0/8 to Te0/0/11 operates as 1G mode if 10G license is not in use)	Without any 10G license: Any two SFP+ ports are enabled. License count 1: Remaining two SFP+ ports are enabled.
ASR-920-20SZ-M	Any 12 ports and the remaining 12 ports are enabled in 1G mode after license installation.	SFP+ Ports (24–27) are enabled based on license count available: License count 1: Any two ports are enabled. License count 2: All ports are enabled.

Cisco Cisco ASR 920 Series models	1G ports	10G ports
ASR-920-12SZ-A ASR-920-12SZ-D	Any port can be used in 1G mode. No license is required.	Six ports are enabled by default. The remaining six ports are 10G licensed ports. To activate the 10G ports, you can install any of the following licenses. 1. When you install and activate the first 10-Gigabit Ethernet Upgrade License, any eight ports can be enabled as 10G and the other four ports can be enabled as 1G ports – allowing an overall capacity of (8x10G+4x1G). 2. When you install and activate the second 10-Gigabit Ethernet Upgrade License, any ten ports can be enabled as 10G and the other two ports can be enabled as 1G ports – allowing an overall capacity of (10x10G+2x1G). 3. When you install and activate the third 10-Gigabit Ethernet Upgrade License, all 12 ports can be enabled as 10G - allowing an overall capacity of (12x10G).