

# RUTX50 Devices

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The information in this page is updated in accordance with firmware version [RUTX\\_R\\_00.07.09](#).

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## VXLAN

**Virtual Extensible LAN** is a tunneling interface protocol (VXLAN), which allows VXLAN layer 2 virtualization over layer 3 network. VXLAN establishes a logical tunnel between the source and destination network devices, through which it uses MAC-in-UDP encapsulation for packets. In addition, it helps customer sites to configure layer2 VPN.

**Note:** VXLAN is additional software that can be installed from the **System** → [Package Manager](#) page.

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If you're having trouble finding this page or some of the parameters described here on your device's WebUI, you should **turn on "Advanced WebUI" mode**. You can do that by clicking the "Advanced" button, located at the top of the WebUI.

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## Device configuration

The Device configuration section is used to set up VXLAN devices.

To add a new device - select 'VXLAN' and click 'Add' button:

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After clicking 'Add' you will be redirected to the newly added VXLAN device configuration page.

## Configuration

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Field	Value	Description
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Name	string; default: <b>vxlan1</b>	Name of the device.
MAC address	mac; default: <b>empty</b>	Override MAC address of the device. If not set, the device's MAC address will be used.
MTU	integer [98..9000]; default: <b>empty</b>	Sets the maximum transmission unit (MTU) size. It is the largest size of a protocol data unit (PDU) that can be transmitted in a single network layer transaction.
VNI	integer [1..16777215]; default: <b>1</b>	VXLAN network identifier.
PORT	integer [1..65535]; default: <b>4789</b>	VXLAN network identifier.
Local address	ip; default: <b>none</b>	Sets the local source IP address for VXLAN tunneling.
Remote address	ip; default: <b>none</b>	Specifies the multicast group or remote IP address used for VXLAN tunneling.
Ageing	integer [1..4294967295]; default: <b>empty</b>	Specifies the lifetime in seconds of FDB entries learnt by the kernel.
Max FDB entries	integer [1..4294967295]; default: <b>empty</b>	Specifies the maximum number of FDB entries.
IPv4 checksum	off   on; default: <b>off</b>	Specifies if UDP checksum is calculated for transmitted packets over IPv4.
Learning	off   on; default: <b>off</b>	Enables or disables MAC learning for VXLAN.
Proxy	off   on; default: <b>off</b>	Enables or disables ARP proxy for VXLAN.
RSC	off   on; default: <b>off</b>	Specifies if route short circuit is turned on.
L2miss	off   on; default: <b>off</b>	Specifies if netlink LLADDR miss notifications are generated.
L3miss	off   on; default: <b>off</b>	Specifies if netlink IP ADDR miss notifications are generated.
IPv6 TX checksum	off   on; default: <b>off</b>	Enables or disables UDP checksum calculation for transmitted packets over IPv6.
IPv6 RX checksum	off   on; default: <b>off</b>	Allow incoming UDP packets over IPv6 with zero checksum field.