

Ruswitch

L2+ Managed Switch

Ruswitch is a high-performance L2+ Ethernet switch with a high port density and low latency. It is equipped with 48 10G SFP ports of the highest possible data transmission speed up to 10Gb/s on downlink, and 4 ports with QSFP interface of the highest possible data transmission speed up to 40Gb/s on uplink.

Ruswitch belongs to a range of managed L3/2 switches. It is designed to connect the end user equipment to the IP-transmission networks of organizations and telecom operators.



Multiple connection options: 1/10/40 Gbit Ethernet

Key Features:

- 40G/10G/1G in 1RU form factor
- 48 high bit rate SFP ports
- 4 X 40G QSFP interfaces
- 1.28 TB/s – performance
- 64K – MAC address-table
- L2/L3 non-locked switching
- stacking up to 8 devices
- support for Multicast /IGMP Snooping, MVR/
- advanced features for L2
- support for L3 functions
- cooling capacity: direct and reverse
- AC and DC power supplies
- low power consumption
- low latency
- open architecture : OnePK, OpenFlow, OpenStack, Python
- supply system reservation and hot swapping
- extended security features /L2-L4 ACL, IP Source Guard, Dynamic ARP Inspection, etc./
- effective surge withstand capability

Ruswitch: Specifications and Capabilities

ports

port flexibility: non-blocking double-linked ports

48 ports	1/10GbE SFP+
4 ports	10/40GbE QSFP+

platform

switching fabric	1,28 Tb/s, non-blocking, zero packet loss
bandwidth	up to 960 Mpps
low latency	500 nanosecond whatever packet size
supports	Jumbo frame 12K
packet buffer	7Mb
MAC address-table	4K multicast 32K IGMP group address range
L2 MAC address-table	64K

size, power & environment

2 power supplies	mutual change-over and hot swapping
form factor	1RU
physical size /HxWxD/	44 x 435 x 394 mm
weight	9,5 kg
operating temperature	0°C to 40°C
operating humidity	10% to 95% noncondensing
power	max up to 450W

capabilities

interface functions	operating with SFP+, SFP modules operating with Copper Direct Attach automatic interface configuration mode: 1 Gbit/s – 10 Gbit/s support for Jumbo frames Wake Lock HOL /head of line/ flow control /IEEE 802.3X/ Port Mirroring Broadcast Storm Protection
functions L2, Multicast and others, related to operation with MAC address	Jumbo frames Port Trunking Port Security IGMP Snooping Multicast Table viewing and editing Port mirroring Loopback detection VLAN /Port based VLAN, Mac based VLAN QoS MAC address table /static/dynamic/

filtering

up to 128k. criteria-based filters	EtherType MAC source, MAC destination with mask support IP source, IP destination with mask support Port source, Port destination with mask support ProtoType VLAN with mask support VLAN2 with mask support DPI /content filtering/
------------------------------------	---

administration

remote control via web-interface
display interface statistics for downloads and errors
SNMP monitoring
CLI /console management/
VLAN and VLAN2 tagging
VLAN and VLAN2 untagging
allows individual customization