

EcoRouter 110, 116 216, 406

The first russian multipurpose IP/MPLS router



EcoRouter is a IP/MPLS router which is network carrier grade x86-based equipment.

EcoRouter is designed to perform critical functions on the levels of aggregation, core, BGP border levels and also as P, PE-router in IP/MPLS-networks.

EcoRouters series supports:

- IPv4 Unicast and Multicast traffic routing
- MPLS traffic switching (IP/MPLS, L3 MPLS VPN, VPLS)
- Flexible mechanism of processing VLAN/QinQ tags on the Ethernet interfaces
- Static, RIPv2, OSPFv2, IS-IS, MP-BGP, PIM-DM/SM/SSM routing protocols
- MPLS label LDP and Targeted LDP signalling protocols
- MPLS Pseudowire technology with Pseudowire Redundancy support
- Flowexport (IPFIX)
- Statistic export to remote log server (Syslog)
- VLAN-Demux, DHCP Relay, DHCP Proxy
- GRE and IP-in-IP tunneling
- VRRP reservation protocol
- H-QoS
- Security features L3/L4 ACL, TACACS+, RADIUS, CoPP, AAA
- Virtual router (VRF)
- Link aggregation (LAG, LACP)
- L2 Bridge Domain and L3 BDI support
- SSH/Telnet management, integration with monitoring and statistics collection systems via SNMP v1/2/3
- Container virtualization technology
- Synchronization protocols NTP and PTP IEEE 1588v2

EcoRouter 110 main characteristics:

- Number of VRFs – **100**
- Number of L3 interfaces – **1 000**
- Number of IP-routs (FIB) – **1 000 000**
- Number of L2 tunnels – **100**
- Number of GRE, IP-in-IP tunnels – **100**
- Number of service instances – **1 000**
- Number of ACL entries – **64 000**

EcoRouter 116 and 406 main characteristics:

- Number of VRFs – **500**
- Number of L3 interfaces – **16 000**
- Number of IP-routs (FIB) – **2 000 000**
- Number of L2 tunnels – **12 000**
- Number of GRE, IP-in-IP tunnels – **1 000**
- Number of service instances – **64 000**
- Number of ACL entries – **64 000**

Multipurpose EcoRouter routers ensures maximum efficiency of traffic protection and service management flexibility while possessing a capacity comparable to the traditional switches.

Providing of such services as VPN and Triple Play, as well as network security services can be arranged on the EcoRouter equipment base due to the wide range of supported technologies.

Routers of the “younger” EcoRouter series models stand out for its compact size (up to 1U), low power consumption, a fixed set of network interfaces, and the optional presence of E1 interfaces (EcoRouter 116). For E1 there is support of: framed/unframed mode, HDLC/PPP encapsulation, Multilink PPP, PPP authentication by CHAP.

EcoRouter models can be used as routers in:

✓ In the office local networks

Fanless models 110, 116, 216, 406 are characterized by compact dimensions, low power consumption, extended temperature range (-10..+55 °C) and limited number of the network interfaces.

✓ To communicate with branches

In cases that require a reliable communication channel between geographically separated offices of the company, **EcoRouter** provides a solution for the construction of VPN channel with the reservation by Pseudowire Redundancy technology.

✓ In the cottage settlements

Using of the H-QoS with flexible traffic policy management provides a guaranteed quality of real-time services, such as IPTV and VoIP. At that time, as the QinQ technology facilitates the billing of provided services.

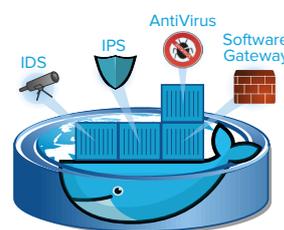
Container virtualisation technology

EcoRouter supports containers virtualization technology that allows to run various services on the router, for example, DNS, or RADIUS-server. The containers can be grouped into clusters, also the standard centralized management tools, such as the Docker, Rancher or Kubernetes are supported.

Containers operate independently of the router's functionality and does not affect its operation. For containers are created virtual network interfaces that can be attached to specific VRF.

With container technology inside the **EcoRouter** it can be run almost any application needed by the user, such as:

- ✓ Mail Server,
- ✓ Antivirus,
- ✓ IDS/IPS,
- ✓ Virtual Gateway,
- ✓ DNS/DHCP Server,
- ✓ File Storage etc.



EcoRouter	110	116	216	406
Throughput up to	6 Gbps	16 Gbps	26 Gbps	26 Gbps
Network Interfaces				
1 GbE Copper	6	12	4	6
1 GbE Fiber (SFP)	-	4	4	-
10 GbE Fiber (SFP+)	-	-	-	4
E1*	-	2	-	-
Extension Slots	-	-	-	1
System Storage	eMMC 5.0	Industrial CF	Intel S4600 Series SSD	Industrial mSATA SSD
Management Interface	-	RJ45	RJ45	RJ45
Console Port	RJ45	RJ45	RJ45	RJ45
Power Supply	60 W External 100-240 VAC, 1.7 A	200 W ATX 100-240 VAC (-10-36 VDC)	1+1 300 W RPC 100-240 VAC	1+1 200 W ATX 100-240 VAC (-36-72 VDC)
Cooling Fan	2 Fans	Fanless	4 Smart Fans	2 Fans
Dimensions (WxDxH)	232 x 153 x 44 mm	440 x 380 x 44 mm	420 x 593 x 44 mm	430 x 400 x 44 mm
Rack Unit	Desktop	1 U	1 U	1 U

* E1 available for ER-116E1



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Skolkovo IT cluster