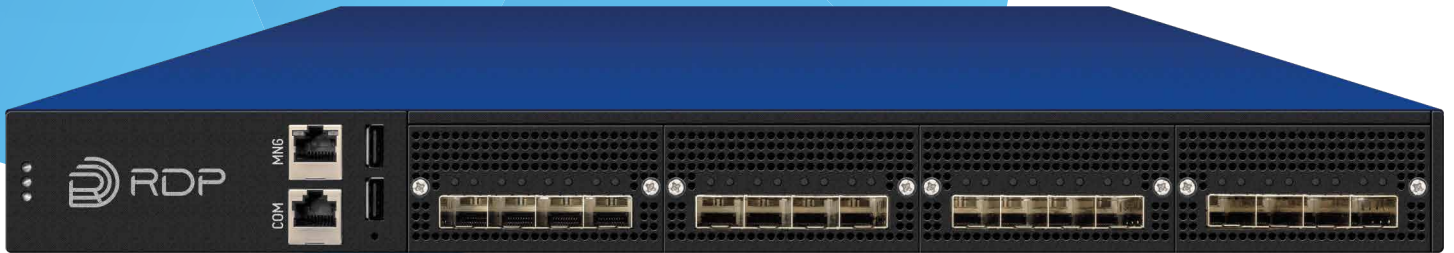


EcoRouter 1004 2008

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 1004 and 2008 main characteristics:

- Number of VRFs – **4000**
- Number of L3 interfaces – **16 000**
- Number of IP-routs (FIB) – **5 000 000**
- 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**

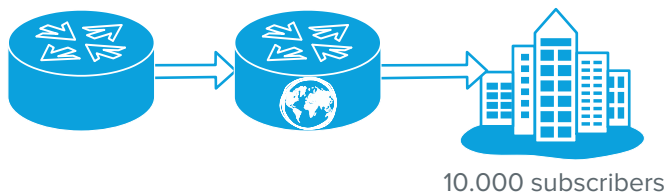
NIC compatibility:

- **NIC-4XGE-SFPP** – 4x10GbE
- **NIC-8GE-TX** – 8x10/100/1000 RJ-45
- **NIC-4GE-TX** – 4x10/100/1000 RJ-45
- **NIC-8GE-SFP** – 8x100/1000 SFP
- **NIC-4GE-TX-4GE-SFP** – 4x10/100/1000 RJ-45, 4x100/1000 SFP
- **NIC-2x40GE-QSFP** – 2x40GbE
- **NIC-2x100GE-QSFP28** – 2x100GbE

EcoRouter models 1004, 2008 are carrier grade devices. ER series allows to simplify aggregation network architecture and to increase the quality and liability of services, providing decreasing CAPEX and OPEX for provider's network.

EcoRouter series is designed for using in mobile and convergence networks for traffic aggregation of corporate and private clients on a one hardware platform.

EcoRouter 1004



Universal IP/MPLS series routers provide the most effective protection of traffic and service management flexibility while possessing a capacity comparable to traditional switches.

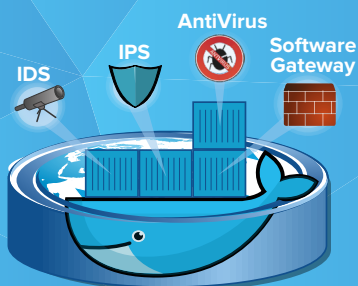
The main task of the network traffic aggregation equipment is to implement effective traffic transit from the subscribers to the point of service with the specified parameters of reliability and recovery times. Using IP/MPLS protocol stack at this level ensures SLA according to different customer requirements and different traffic types.

EcoRouter 2008



In **EcoRouter** implemented modern engine for delivering multi-services. For their transmitting is used QinQ technology with dynamic allocation of client VLANs in transport VLANs according to the type of the traffic that ensures the best conditions of service for each type of traffic. For the convenience of service charging there are at once two options of the traffic distribution by VLAN: classification by the type of the traffic and allocation VLAN with the appropriate tags (VLAN per service), and tags of user groups (VLAN per user).

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.



EcoRouter series

1004

2008

Throughput up to	160 Gbps	320 Gbps
Network Interfaces		
1 GbE Copper	2	2
1 GbE Fiber (SFP)	-	-
10 GbE Fiber (SFP+)	-	-
Module Slots	4	8
Management Interface	RJ45	RJ45
Console Port	RJ45	RJ45
Power Supply	1+1 300W ATX 100-240 VAC	1+1 600/400W ATX 100-240 VAC
Cooling Fan	4 Hot Swap, Smart Control	4 Hot Swap, Smart Control
Dimensions	440mm x 580mm x 44mm	440mm x 600mm x 88mm
Rack Unit	1U	2U



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Resident of
Skolkovo IT cluster