

OpenRouter

Product Description:

The Vector Data OpenRouter is a configurable network router supporting 40, 10 and 1 Gb/s Ethernet interfaces. Hardware configurations of up to three sustained 40 GbE interfaces, thirty 10 GbE interfaces or thirty 1GbE interfaces are possible with up to a maximum backplane bandwidth of 120 Gb/s. Models are available in 1U and 3U chassis heights.

OpenRouter is based on commodity hardware, offering price-performance unachievable on legacy routers.

OpenRouter is designed as a data center aggregation device intended to facilitate movement of bulk data on to inter-facility links including telco-provided Ethernet, metropolitan and campus fiber, DWDM, and radio back haul. Both IPv4 and IPv6 are supported as are a full range of router capabilities and protocols including BGP, OSPF (v2 and v3), IS-IS, management and configuration tools, monitoring and logging, security and redundant power.

Two different hardware configurations are initially available, the 1U OpenRouter 1300 and the 3U OpenRouter 3500. Network cards are interchangeable and upgradeable enabling cost-effective “pay-as-you-grow” capacity. Vector Data can also work with you to qualify the ideal configuration for your environment, including ruggedized and custom computing platforms requiring DC power, NEBS certification, ATT-TP, ETSI and MIL-STD for telecom, aerospace, military, oil & gas and other demanding industries that cannot deploy standard COTS products.

Management:

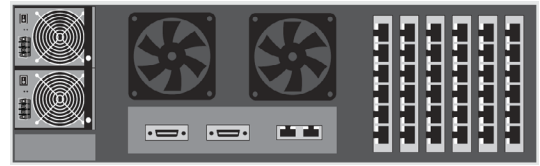
- Local console
- Serial
- IPMI serial over LAN
- SSH access

Monitoring:

- SNMP v1,v2c and v3
- Syslog
- Mail
- Netflow

Security:

- IPFW filtering
- PF filtering
- mtree system audit
- pkg package audit



Routing Features

- Routing protocols: BGP, RIP and RIPng (IPv6), OSPF v2 and OSPF v3 (IPv6), ISIS
- Multicast: DVMRP, IPv6 PIM Dense Mode and Sparse Mode
- Multiple FIB: 16 Routing Tables available
- High availability with CARP (support also load balancing the incoming connections) and VRRP
- Multi-link PPP: PPTP, PPPoE, L2TP, etc...
- VPN: GRE, GIF, IPSec (IKEv1 and IKEv2) and OpenVPN

Additional Product Features:

QoS:

- Traffic shaper supporting: FIFO, WF2Q+, RR (Deficit Round Robin), QFQ
- Alternate queuing with ALTQ supporting: CBQ (Class Based Queuing), RED (Random Early Detection), RIO (Random Early Drop), HFSC (Hierarchical Packet Scheduler), PRIQ (Priority Queuing)
- Committed Access Rate with netgraph: Single rate three color marker (RFC 2697), two rate three color marker (RFC 2698), RED-like, Traffic shaping with RED

Ethernet features:

- 802.1q vlan tagging
- Link aggregation and link failover interface
- Bridging with support of Rapid Spanning Tree Protocol (802.1w)

Network services:

- DHCP Relay
- DHCP Server

TECHNICAL SPECIFICATIONS

| Model | 1300 | 3500 |
|---------------------------------------|---|--|
| Form Factor | 1U | 3U |
| Dimensions | Height 1.7" (43 mm) Width 17.2" (437 mm) Depth 16.9" (429 mm) | Height 5.2" (132 mm) Width 17.2" (437 mm) Depth 25.5" (648 mm) |
| Power Supplies | Dual 400w (1 + 1) 100-240V AC or -48V DC | Dual 800W (1 + 1) 100-240V AC or -48V DC |
| Max Slots (Full Height + Low Profile) | 2 + 1 | 5 + 0 |
| Max Ports (40/10/1) | 12/16/16 | 6/18/30 |
| Max Backplane Bandwidth | 120 Gb/s | 120 Gb/s |

PERFORMANCE

| | 40 GbE | 10 GbE | 1 GbE |
|----------------------|--------|--------|-------|
| Per Port (Gb/s) | 39.5 | 9.92 | 1 |
| Per Port (Mpps) | 59.18 | 14.77 | 1.48 |
| Max Sustained (Mpps) | 30.95 | 13.57 | 1.48 |
| Max Sustained Ports | 3 | 6 | 42 |

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