UNIVERGE® SV8000 Series InRouter

Fulfilling the promise of UNIVERGE®360

The InRouter offers an intelligent, all in one networking and monitoring solution for NEC communications servers. It combines multiple voice and data features into an in-skin converged networking router. The InRouter includes a single T1 WAN interface or a single Ethernet WAN and an integrated 4 port managed Ethernet switch with VLAN support.

Feature-Rich and Secure

The InRouter is packed with features including:

- A VoIP application layer gateway (SIP) that resolves Network Address Translation (NAT)/firewall traversal issues
- VoIP-aware VPN/Firewall
- DHCP server
- NAT/Port Address Translation (PAT)
- Management for HTTP, HTTPS, SSH, Telnet, SNMPv1 and V

At a Glance

- An in-skin solution for UNIVERGE SV8100 and SV8300 Communications Servers
- Feature-rich and secure
- Superb Quality of Service
- Simplified troubleshooting

The InRouter also includes security features such as IP Security (IPsec), Stateful Packet Inspection (SPI) firewall, and an optional media-aware Application Layer Gateway (ALG).

An In-Skin Solution for SV8100 and SV8300 Communications Servers

The InRouter is an in-skin solution for your converged network appliance needs. It is a data router, Ethernet switch, firewall, and VoIP Application Layer Gateway (ALG) with a single management interface. The InRouter delivers reliability and performance.

Superb Quality of Service

The InRouter provides excellent Quality of Service (QoS) through:

- Packet prioritization
- Priority queuing
- Data traffic shaping for VoIP calls
- Differentiated Services (DiffServ) marking/policing

Simplified Troubleshooting

The InRouter passively monitors call quality for issues such as jitter and latency while it compiles Mean Opinion Score (MOS) statistics. It can isolate LAN/WAN problems from the router and also includes additional diagnostics such as TCPdump, PING and Traceroute.

Empowered by Innovation

NEC

Interfaces	
T1 WAN:	1
Framing:	ESF/D4
Line coding:	B8ZS/AMI
Line Build Out:	0,7.5,15db
Connector:	RJ45
PPP:	Yes
Frame Relay:	Yes
HDLC/cHDLC:	Yes
Ethernet WAN:	1
Auto-sensing:	Yes
10/100 Mbps:	Yes
Duplex:	Full or half
Ethernet LAN:	4
10/100 Mbps:	Yes
Duplex	Full or half
Managed VLAN:	Yes
Loop Start:	Yes
USB ports:	2
Console Connector:	DB9 Male

Passive Call Quality Monitoring	
Per call statistics	Yes
LAN side measurements	Yes
WAN side measurements	Yes
Mean Opinion Score (MOS)	Yes
Bad MOS score alarms	Yes
Below threshold MOS counters	Yes
MOS Degradation due to network impairments	Yes
Jitter	Yes
Packet loss	Yes
Consecutive lost packets	Yes
Total # of RTP packets received	Yes
Sum of received & expected packets	Yes
Out of sequence packets	Yes
Average packet loss burst length	Yes
Estimated jitter buffer delay	Yes
Estimated jitter buffer packet discard rate	Yes
Probability of degradation due to:	
• LAN congestion	Yes
• Router congestion	

Automatic TFTP/FTP download on restart

For more information, visit www.necuni ed.com