# BLACK BOX®
NETWORK SERVICES

Load Balancer

Key Features

▶ Powerful and effective loadbalancing Capability.

▶ Firewall, IDS/IPS, firewall, DoS, VPNs and more.

▶ Inbound and outbound load balance algorithms.

▶ Fault tolerant capabilities.

▶ 2, 4 and 8 homed units available

Reviewed and recommended by InfoWorld, the LRS81xxAE Series, with multitude of functions, is a complete load balance system for WAN link management. LRS81xxAE Series can aggregate up to eight WAN links and provides both inbound and outbound traffic management. In addition, its unique high availability feature ensures the aliveness of servers and provides an always-on sever environment to users. LRS81xxAE enhances your network with more reliability, scalability and better customer-satisfaction. Aside from its powerful and effective loadbalancing capability, the system also offers firewall, IDS/IPS, firewall, DoS, VPNs and more. Its inbound and outbound load balance algorithms and fault tolerant capabilities eliminate potential business loss from unexpected disconnections by the Internet. The system provides sophisticated reports for trouble-shooting and diagnosis. The LRS81xxAE Series is ideal for businesses that wish not only to upgrade their bandwidth but also to excel the total performance.
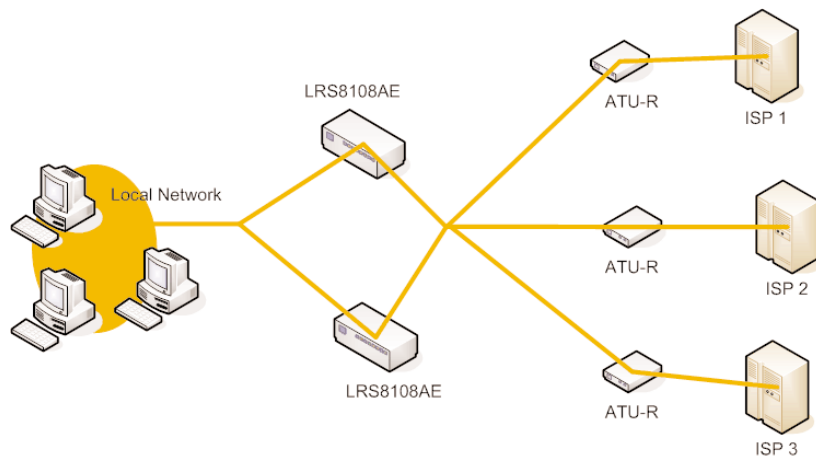
Specifications

LRS8108AE

Hardware & Interface
CPU: PowerPC 333MHz
Memory:
- SDRAM: 192MB, Flash
- 16MB, SRAM: 1MB
WAN Port 8*10/100M
LAN Port 1*10/100M
DMZ Port 1/10/100M

Load Balance Capability
Global Load Balance:
In/Outbound
Load Balance Bandwidth: 100M
- Auto Detect Line Status
- Load Balance Algorithm: 9
Static: - Round-robin
              - Weighted Round-robin
Dynamic: - Auto Learning
              - Dynamic Ratio
              - Dynamic Weighted
              - Fastest
              - Least Conection
              - Priority
              - Latency
              - IP Aliasing

Packet Shaping
- QoS
- Smart Outgoing

Reporting
Log: 1 Month Even w/o PWR
Real Time Trap Report:
LED/SNMP/Mail/SMS
- Hardware Loading Report
- Bandwidth management Report

Security
Firewall: SPI
- Intruction Detection/Prevention System
Hardwear VPN: Optional

Reliability
- RIP v1/v2, OSPF
- System Auto Detection & Recover
Power & Fan cooler: 2 Sets (90-240V)
High Availability: VRRP
- Power & Fan cooler Hot Swappable

Service
- DHCP Relay/Server
- Transparent Mode (Proxy ARP)

User Friendly
Remote Login & Management:
TELNET/SSH/Web-base
- Remote Software Upgrade
- Quick Install

LRS8104AE

Hardware & Interface
CPU: PowerPC 266MHz
Memory:
- SDRAM: 128MB, Flash
- 16MB, SRAM: 1MB
WAN Port 4*10/100M
LAN Port 1*10/100M
DMZ Port 1/10/100M

Load Balance Capability
Global Load Balance:
In/Outbound
Load Balance Bandwidth: 50M
- Auto Detect Line Status
- Load Balance Algorithm: 5
Static: - Round-robin
              - Weighted Round-robin
Dynamic: - Auto Learning
              - Fastest
              - Priority
              - Fastest
              - IP Aliasing

Packet Shaping
- QoS
- Smart Outgoing

Reporting
Log: 1 Month Even w/o PWR
Real Time Trap Report: LED/SNMP/Mail
- Hardware Loading Report
- Bandwidth management Report

Security
Firewall: SPI
- Intruction Detection/Prevention System
Hardwear VPN: Optional

Reliability
- System Auto Detection & Recover
- Power & Fan cooler Hot Swappable

Service
- DHCP Relay/Server
- Transparent Mode (Proxy ARP)

User Friendly
Remote Login & Management:
TELNET/SSH/Web-base
- Remote Software Upgrade
- Quick Install

LRS8102AE

Hardware & Interface
CPU: PowerPC 266MHz
Memory:
- SDRAM: 64MB
- Flash: 8MB
WAN Port 2*10/100M
LAN Port 4*10/100M

Load Balance Capability
Global Load Balance:
In/Outbound
Load Balance Bandwidth: 25M
- Auto Detect Line Status
- Load Balance Algorithm: 5
Static: - Round-robin
              - Weighted Round-robin
Dynamic: - Auto Learning
              - Fastest
              - Priority
              - Fastest
              - IP Aliasing

Packet Shaping
- QoS
- Smart Outgoing

Reporting
- Log
Real Time Trap Report: LED/Mail
- Hardware Loading Report
- Bandwidth management Report

Security
Firewall: SPI
- Intruction Detection/Prevention System

Reliability
- System Auto Detection & Recover
- Power & Fan cooler Hot Swappable

Service
- DHCP Relay/Server
- Transparent Mode (Proxy ARP)

User Friendly
Remote Login & Management:
Web-based w/ w/o SSL
- Remote Software Upgrade
- Quick Install

▼ *Ordering information*

ITEM	CODE
Load Balancer, 2 * WAN, 4 * LAN, 25M	LRS8102AE
Load Balancer, 4 * WAN, 1 * LAN, 1 * DMZ, 50M	LRS8104AE
Load Balancer, 8 * WAN, 1 * LAN, 1 * DMZ, 100M	LRS8108AE

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Black Box Network Services - The world's largest network services company

We are, with 25 years of experience, the world leader in network infrastructure services.

On the Phone — no charge, answer calls in less than 20 seconds, find the right product with our technical experts.

On-site — superior design and engineering, Certified installations, end-to-end service.

On-line — receive technical knowledge on-line, including technology overviews, Black Box Explains and the Knowledge Box.

Most comprehensive TECHNICAL SUPPORT — our best Product! Free hotline TECH SUPPORT!

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BLACK BOX exclusives — Certification Plus. Guaranteed-for-life products and services.