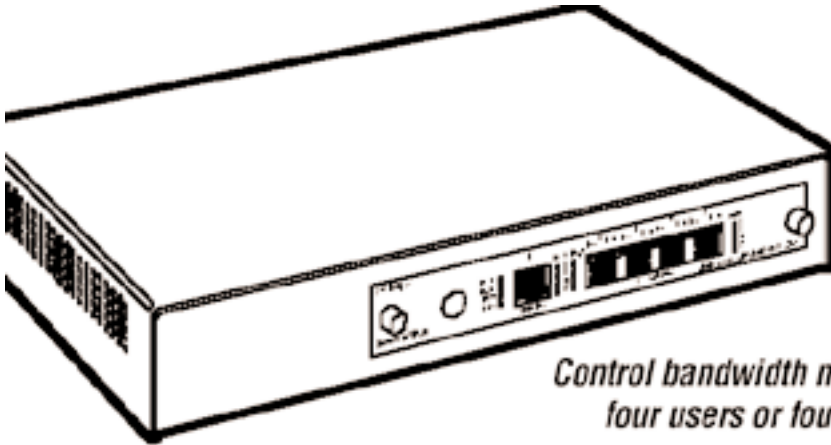


BLACK BOX[®]

NETWORK SERVICES

IP MUX



Control bandwidth management between four users or four groups of users.

Key Features

- ▶ Allocate bandwidth to the departments or users that need it most.
- ▶ Includes one uplink port and four downlink ports.
- ▶ Can be managed by SNMP, iView software, or both.
- ▶ Isolated downlink ports—no physical or electrical connection between the four ports.
- ▶ Four downlink ports share a total bandwidth of up to 10 Mbps.

Use the IP Mux to provide Internet access for four users or four groups of users and be able to control how much bandwidth each user gets. Perfect for LANs, WANs, or intranets! Just connect the IP Mux to a switch or router on your 10/100BASE-T LAN. No need to buy expensive routers or switches, or to use complex QoS management products!

Once you've connected the IP Mux to your system, it sorts the traffic coming from the uplink port to the four downlink ports by IP address. (Each downlink port is assigned a specific range of IP addresses.) These four ports share a combined total of up to 10 Mbps of bandwidth. The IP Mux controls how much bandwidth each port receives.

Tailoring the amount of data that passes through each port allows IS managers to provide bandwidth to users who need it the most. Internet Service Providers (ISPs), for example, are often able to charge users for increases in bandwidth. You choose the amount of bandwidth you wish to allocate to each of the four downlink ports.

And since there's no electrical connection between the four downlink ports, there's no danger of any of the four users hacking into each other's computers.

Configuring the IP Mux is done through software. Use any standard SNMP program to manage the IP Mux, or choose iView Management Software for its easy-to-use graphic interface. Or combine the two for easy management plus complete SNMP

network statistics. (For more information about iView, see Faxback Nr. 23355.)

With the IP Mux...

- LAN administrators can increase LAN segment security.
- ISPs can provide highly secure and low-cost firewalls.

Technically Speaking

Multiplexing protocol is highly secure with the IP Mux, since there's no logical or physical connection between the downlink ports. Packet data transfers occur between the uplink and downlink ports only. And hackers can't get from one downlink port to another, since downlink-to-downlink communication is impossible with the IP Mux.

If communication between downlinks is required, packets must pass out of the multiplexor, loop back through an external router or switch, into the IP Mux, and to the appropriate port. See the illustration above.

Performance Tuning and Bandwidth Management

The IP Mux provides the network administrator with the ability to allocate bandwidth to those IP Mux users who need it the most. This feature also allows ISPs to dynamically price their Internet services based on bandwidth. Bandwidth allocation is easily changeable via the user-friendly SNMP management facility.

The aggregate bandwidth of the downlink ports should not be greater than the maximum bandwidth of the uplink port, which is 10 Mbps. Even at a maximum load, each user will enjoy performance that exceeds T1 speeds (1.544 Mbps).

Specifications

Speed — 10 Mbps

Indicators — LEDs:

Uplink Port: Receive, Transmit, Full-Duplex, Link;
Downlink Port: Receive, Transmit, Port Enabled, Full-Duplex

Connectors — (1) RJ-45 uplink port; (4) RJ-45 downlink ports
Safety and Emissions

Certifications — FCC Class A, UL, CE approved

Temperature —

Operating: 0 to 40°C (32 to 122°F);
Storage: -6 to +71°C (22 to 160°F)

Humidity — 5 to 95%
noncondensing

Power — Single-slot chassis:
95/240 VAC, 50/60 Hz, 0.2/0.1 A

Size — 3.8H x 24.4W x 19D cm

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!

The world's best customer service — Custom design services and products, the best warranties, money-saving discount programs.

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

Ordering information

ITEM

CODE

IP MUX	
Power-Chassis	LE1024A
Ethernet 10/100 BASE-T	LES5614202A