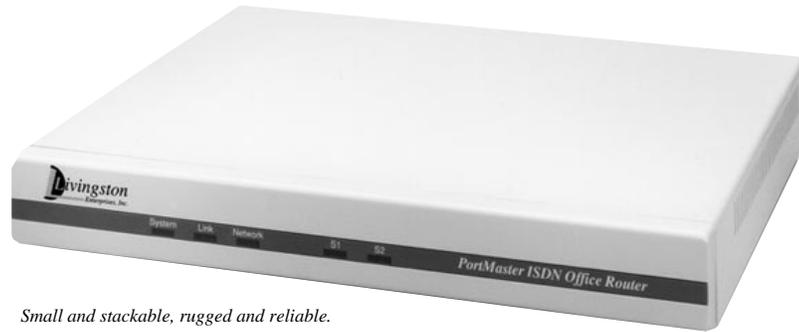


ISDN Office Router

Livingston PortMaster ISDN Office Router

Affordable, High-Speed Internetworking for Small Offices.



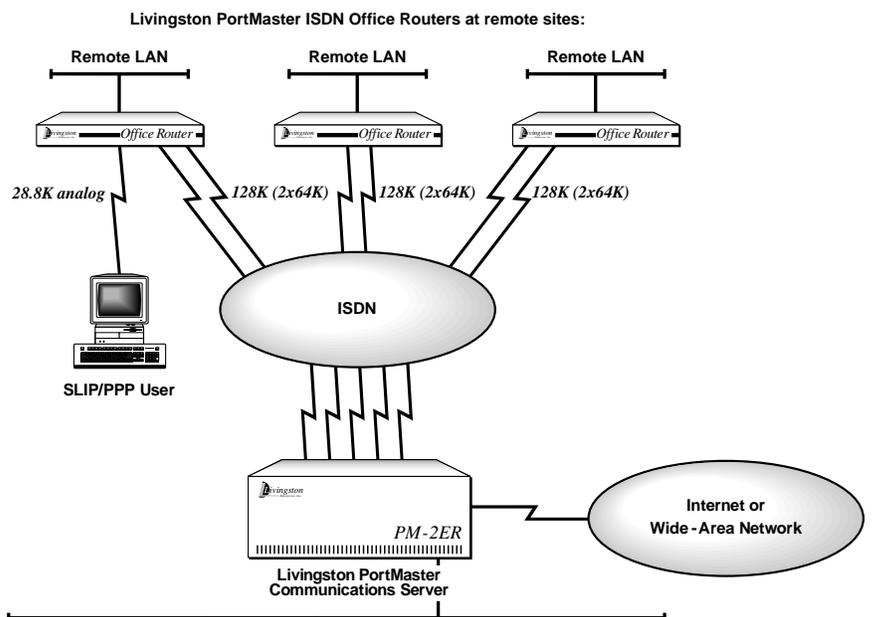
Small and stackable, rugged and reliable.

Now even remote users and small offices can benefit from high-speed dial-up access to central office resources and the Internet. Using ISDN (Integrated Services Digital Network) phone lines, the PortMaster™ ISDN Office Router combines the speeds of dedicated leased lines with the economy of dial-up phone service.

The PortMaster ISDN Office Router has an Ethernet port, an ISDN BRI (basic rate interface) port supporting two 64-Kbps B-channels and one 16-Kbps D-channel, and an asynchronous port. It can be used as a powerful dial-up multiprotocol router (TCP/IP, Novell IPX), a dial-in/dial-out IP and IPX communications server, or both. Dual B-channel aggregation providing 128 Kbps bandwidth is supported using Multilink PPP (MP). The 115.2 Kbps asynchronous port provides a second dial-in/dial-out port for user-to-LAN and LAN-to-LAN dial-up routing.

The PortMaster ISDN Office Router runs Livingston's industry-proven ComOS™, the most efficient remote access technology available. It also includes firewall security features, the Livingston-invented RADIUS (Remote Authentication Dial In User Service) protocol, and Livingston's ChoiceNet™ technology for centralized filter management. Livingston PMconsole™ graphical administration software makes configuration easy.

Another
piece of
Livingston's
total
remote



SPECIFICATIONS**GENERAL**

Flash memory
 Local or network booting via tftp
 SNMP (MIB 2)
 Reverse Telnet
 Ping utility
 Traceroute utility
 IPX SAP Filtering
 Multi-line load balancing
 Domain name service or network information service
 Auto detect dial-out authentication scripts
 Single or multiprotocol support selectable on each port
 Novell keep-alive spoofing
 PPP auto detect
 Session idle timers
 Clear channel TCP
 BOOTP

SUPPORTED PROTOCOLS

TCP, IP, IPX, SPX, SAP, RIP, SLIP, CSLIP, ICMP, UDP, ARP, telnet, rlogin,
 PPP (Fully compliant: RFC 1331; RFC 1332; RFC 1334; RFC 1618;
 backward compatible: RFC 1171; RFC1172), MP (RFC 1717), V.120

ROUTING SUPPORT

Concurrent TCP/IP and Novell IPX routing
 On-demand dial-up routing
 Unnumbered WAN links for TCP/IP
 Static routes
 On-demand, continuous connection, and manual/scheduled dialing
 Auto detect dial-out authentication scripts
 Dynamic routing using RIP for IP and IPX
 RIP support on a per-interface basis
 Support for IP host, subnet, and network routes
 Automatic packet queuing and redial
 Proxy ARP

SECURITY

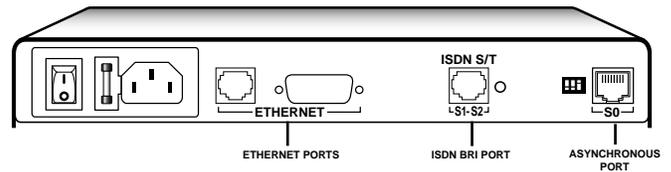
Local username/password database
 Dialback
 PAP and CHAP authentication
 Inbound/outbound IP and IPX packet filters
 Central authentication via RADIUS protocol
 Per-user authorization filters (source address, destination address,
 protocol, protocol service [Web, e-mail, ftp], status of connection)
 User accounting (audit trails)
 ChoiceNet centralized filtering technology

ASYNCHRONOUS PORT SUPPORT

LAN-to-LAN dial-on-demand routing
 Concurrent TCP/IP and Novell IPX dial-in
 Standard dial-up phone lines (using V.32 bis and V.34 modems)
 Dial back-up of ISDN WAN ports
 ISDN (using terminal adapter)
 Local and remote console

ISDN SUPPORT

Standards: ITU-T Q.920, Q.921, Q.922, Q.930, Q.931, Q.932
 Certifications: NET3/ICTR3, JATE*
 Switch compatibility: National ISDN-1 (NI-1), AT&T 5ESS custom,
 Northern Telecom DMS-100 custom, Euro-ISDN (ETSI),
 1tr6, German National ISDN, VN4, NTT INS-Net64*,
 KDD*
 Compatible with CSD/CSV services
 V.120 ISDN-to-DTE terminal rate adaption
 AT command emulation for ISDN dial-out
 V.120/Synchronous PPP autodetect
 Digital dialtone diagnostics
 Multilink PPP with dynamic bandwidth extensions
 *pending approval



LIVINGSTON PORTMASTER ISDN OFFICE ROUTER with S/T interface.
 (A U-interface version is also available.)

HARDWARE

One Ethernet port with two switch-selectable interfaces:

AUI connector
 Built-in 10BaseT transceiver (RJ-45)

One ISDN BRI (basic rate interface) port

Two 64-Kbps B-channels, one 16-Kbps D-channel
 S/T interface or U interface (with integrated NT-1)
 RJ-45 connector

One asynchronous serial port

Up to 115.2 Kbps
 RS-423/232 interface
 RJ-45 connector

DTR, DSR, DCD, RTS, CTS, TxD, RxD

Either or both WAN ports can be used as a primary dial-up router port, back-up dial-up router port, dial-in port for network management, or one- or two-port communications server for remote LAN connectivity (SLIP, PPP, Telnet, TCP/IP, IPX).

Dimensions

Length: 8.75 in (22 cm)
 Width: 10.5 in (26.2 cm)
 Height: 1.75 in (4.3 cm)
 Weight: 3.9 lb (1.8 kg)

Power Requirements

110 VAC \pm 10%, 47-63 Hz
 240 VAC \pm 10%, 47-63 Hz

Environmental Operating Range

Temperature: 32F to 104F (0C to 40C)
 Humidity: 10% to 90%

Agency Approvals

FCC, UL, CSA, CE



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