PortMaster 2 & 2R

Livingston Dial-In/Dial-Out Communications Servers
Versatile And Secure Network Connectivity.
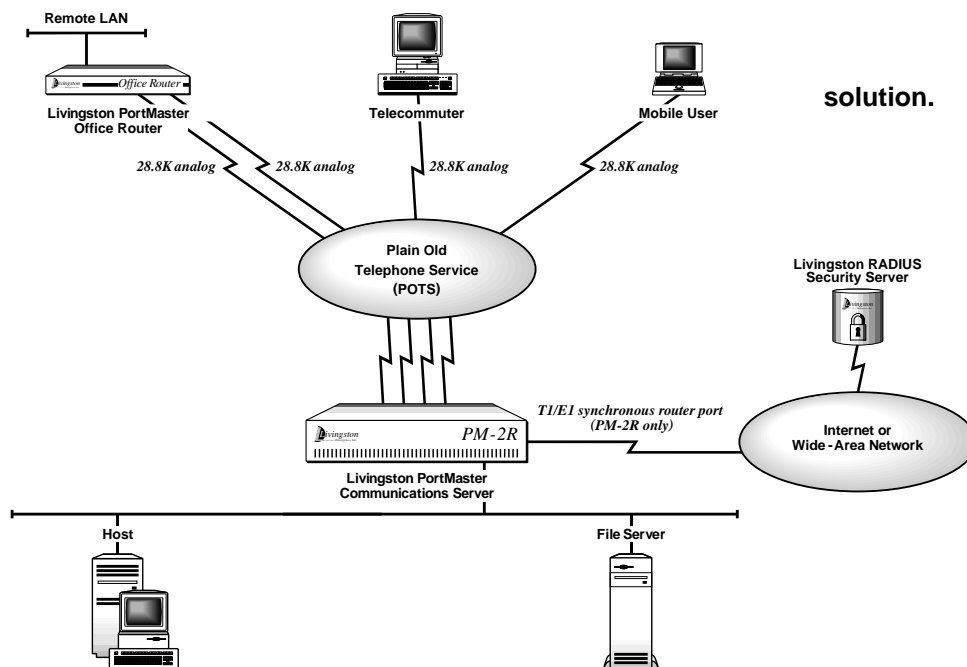
Livingston

PortMaster 2
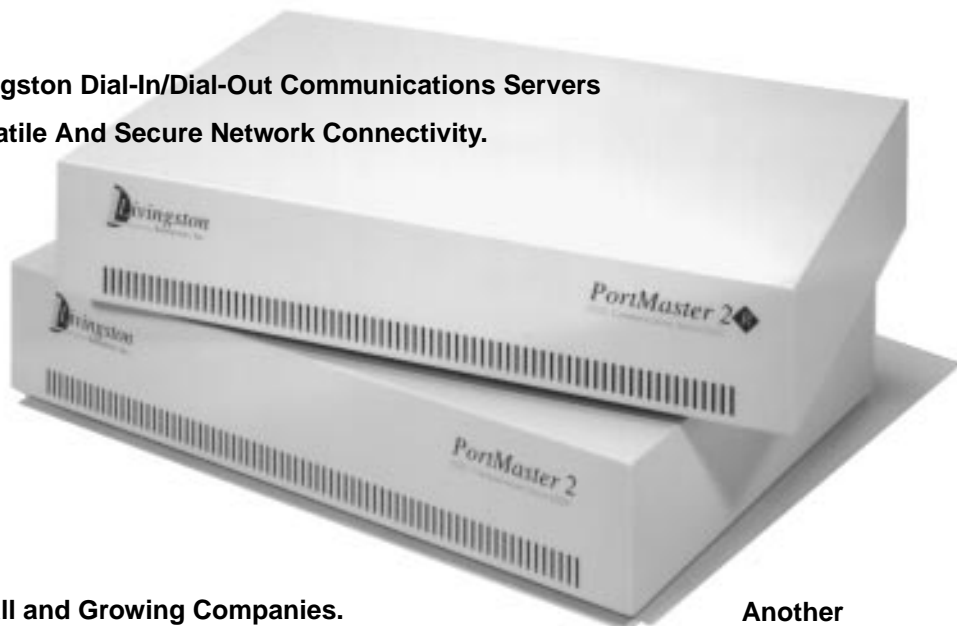
PortMaster 2

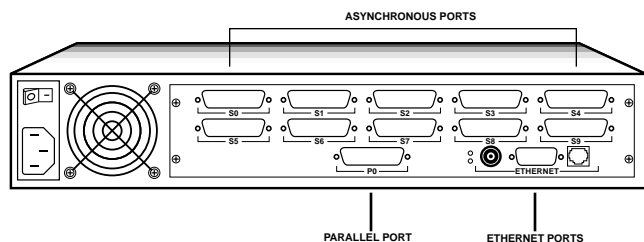## Low-Cost Access for Small and Growing Companies.

For small corporations needing secure remote access, Livingston offers two fixed configurations of the popular PortMaster™ Communications Server. The PortMaster 2 is an easy, low-cost way for even the smallest company to provide dial-in access to internal network resources and the Internet for employees traveling or working at home. This fixed-configuration 10-port communications server also allows internal network users to share dial-out modems for access to the Internet or bulletin boards. And it supports LAN-to-LAN dial-up routing.

The PortMaster 2R offers the same 10-port configuration and adds an integrated T1/E1 synchronous routing port for a leased-line or Frame Relay connection to a WAN backbone or to an Internet Service Provider. It is ideal for information service providers or corporations needing an economical solution for dial-in points of presence (POPs).

The PortMaster 2 and PortMaster 2R run Livingston's reliable ComOS™ operating system software, the most efficient remote access platform available. They also include firewall security features and Livingston-invented RADIUS (Remote Authentication Dial In User Service) protocol. Livingston's PMconsole™ graphical administration software makes configuration easy.

Another piece of Livingston's total remote access solution.

Remote LAN

Office Router
Livingston PortMaster Office Router

Telecommuter

Mobile User

28.8K analog   *28.8K analog*   *28.8K analog*   *28.8K analog*

Plain Old Telephone Service (POTS)

Livingston RADIUS Security Server

PM-2R

T1/E1 synchronous router port (PM-2R only)

Internet or Wide-Area Network

Livingston PortMaster Communications Server

Host

File Server

Livingston
Enterprises, Inc.

ASYNCHRONOUS PORTS

ASYNCHRONOUS PORTS

PARALLEL PORT   ETHERNET PORTS

PARALLEL PORT   ETHERNET PORTS

Back panel of the LIVINGSTON PORTMASTER 2 fixed-configuration communications server with 10 asynchronous ports, an Ethernet port and a parallel port.
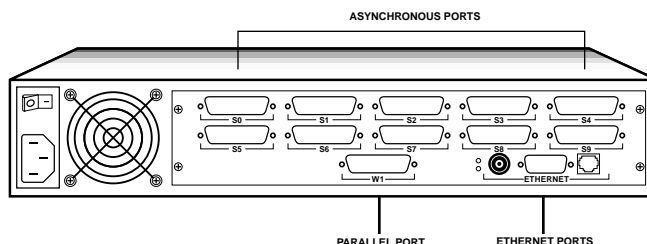
Back panel of the LIVINGSTON PORTMASTER 2R with 10 asynchronous ports, an Ethernet port, and a T1/E1 synchronous port.

SPECIFICATIONS

GENERAL

Flash memory
Local or network booting
SNMP (MIB2)
Reverse Telnet
Ping utility
Traceroute utility
IPX SAP filtering
Multi-line load balancing
Alternate tftp boot via network
Domain name service or network information service
Single or multiprotocol support selectable on each port
Novell keep-alive spoofing
PPP auto detect
Session idle timers
Clear channel TCP

SUPPORTED PROTOCOLS

TCP, IP, IPX, SPX, SAP, RIP, SLIP, CSLIP, ICMP, UDP, ARP,
 telnet, rlogin, PPP (fully compliant: RFC 1331, RFC 1332, RFC 1334;
 backward compatible: RFC 1171, RFC 1172.)

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
Dynamic routing using RIP for IP and IPX
RIP support on a per-interface basis
Static routing applied if interface goes up/down
Trusted router RIP filtering
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)

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.32bis and V.34 modems)
ISDN dial-in via external ISDN terminal adapter (TA)

HARDWARE

One Ethernet port with three selectable interfaces:
 Built-in 10BaseT transceiver (twisted pair)
 Built-in 10Base2 transceiver (thin Ethernet)
 AUI connector
10 high-speed asynchronous ports
 Up to 115.2 Kbps per port
 RS-423/232 interface
 DTR, DSR, DCD, RTS, CTS, TXD, RXD
 DB-25 connectors
One synchronous serial port (PortMaster 2R only)
 Speeds up to T1/E1
 RS-232 physical interface
 V.35 physical interface with supplied adapter cable
 External clocking (from CSU/DSU)
Dimensions
 Length: 11.5 in (29.2 cm)
 Width: 16.8 in (42.7 cm)
 Height: 3.2 in (8.1 cm)
 Weight: 12.4 lb (5.7 kg)
Power Requirements
 110 VAC + 10%, 47-63 Hz
 240 VAC +10%, 47-63 Hz
Environmental Operating Range
 Temperature: 41F to 113F (5C to 45C)
 Humidity: 20% to 80%
Agency Approvals
 FCC, UL, CSA

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