

# IpTL FastLane™ 79R Multipath Ethernet Transport Switch

Securely & Transparently Connect and Tunnel 25 to 1,000 LANs over the Internet

The IpTL 79R provides a unified management point for terminating large networks. Providing the connectivity, control, and configuration for multisite networking, the M79R provides solution scalability with full fallback or hot-standby redundancy.

For larger enterprise applications with many sites or as part of an integrated disaster recovery installation, the M79R provides the transparency, the bandwidth, and the flexibility for each of your local or remote network connections.



- Connects 25 to 1,000 remote devices to the central site.
- Perfect for larger multisite networks, high-bandwidth networking, and disaster recovery applications
- Fully compatible with any IpTL client or server product including M71LW, M72, M75, or M79R.
- Full IpTL software feature suite. Single Port Tunnel, AES-256 encryption, user ACLs/Firewall and data Compression.
- Transparent to all Ethernet LAN traffic including VoIP, H.263/H.264, IP Cameras, and VLANs
- Provides N+1 or N+ N fallback or hot-standby redundancy — provider, link, & device protection!
- Integral VLAN tagging/stripping & Trunking

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Network Communications Simplified™

## Device Overview

- 1RUx19" Rack Mount Steel Enclosure; multiple fan cooling.
- 4 status LEDs: Bypass, Power, HDD, System
- Front Panel LCD 2x16 backlit display and in;ut
- Transparent tunneling of Ethernet frames from Ethernet-LAN-to-Ethernet-LAN with full AES encryption and compression.
- Auto-discovery of tunnel end-points through NAT/Routers/Proxy's.
- Supports 25—1,000 simultaneous connections. Unlimited host support — no network host limitation. Unlimited Networks.
- Provides Point-to-Multipoint Ethernet tunnel bridged links, full-duplex, and transparent operation.
- User configurable voluntary, compulsory tunnels, or split-tunnels.
- Firewall and ACL's provide granular traffic management as well as protection for both Local, Uplink, and each Tunnel.
- Hardware is licensed expandable from 25 users to 250 (models – 00 through –03 models; 500 to 1,000 users (models –04)
- Standard 1 year warranty. Extended warranty and support services available.

## Network Interface

- 6 port 802.3TX 10/100/1000 Ethernet, Shielded RJ45 jacks. Auto-sensing full- and half- duplex operation on all ports.
- Port 1 and Port 2 are relay connected with hardware fail-over on system failure or power failure.
- Any interface can be used to establish/terminate tunnels.

## Management & Configuration

- Plug-and-Play auto-discover and configuration or manual point-to-point configuration.
- Internal web server and control with selectable HTTP/HTTPS.
- SNMP v1 MIB II; User selectable enable/disable, SNMP Variables, Tunnel Status & Tunnel Octet In/Out, Ethernet Status & Ethernet Octet In/Out.
- SNMP Traps for device and tunnel events.
- Syslog output for logging.
- User Definable IP Address and Subnet Mask and Port for management.
- DHCP client for automatic address with simultaneous static secondary IP.

## Filtering & Quality of Service

- User configurable L2 and L3 filters on IP/Port or MAC Address. Statefull inspection processing and filtering with new, established, or related operation. Quick access buttons for immediate config.
- User defined L2 and L3 QoS, CBQ or HBT, with application/IP or host/MAC filtering on any interface; ACL filtering on MAC address, source and destination address, and protocol type.
- NETBIOS filtering low/pass/block/Deny of Windows broadcasts/NetBIOS data on a per tunnel basis.
- Filter logging for status; front panel indicator flashes on firewall event.

## Ordering Information

- 10070-79-00** FastLane IpTL 79R Multipath Ethernet Access Server, Licensed as server for 25 clients, 6 ports of copper 10/100/1000 Ethernet with bypass, 19" Rack-mount Chassis, Single UI Power Input 100-240VAC 50/60Hz; Rack Ears Included. Use with any Model 70 Series remote client. Standard 1 year limited warranty included. Upgradeable to 500 clients with license packs. Includes FlexPath redundancy standard. Stack one or more units for full server (power, processor, etc) redundancy.
- 10070-79-9525** FastLane IpTL 79R user upgrade license pack - 25 user pack - upgrades any Model 79R to allow an additional 25 users to the base users configuration. Multiple 25 user packs can be applied to

## Connectivity

- TLS or PPTPWrapper Tunnel operations with AES-128 CBC and -256 bit key encryption (selectable DES-EDE3-CBC,3DES-CBC, Blowfish-CBC). 500mbps—1Gig symmetric throughput model and traffic dependent.
- Dynamic and automatic keying and rekeying (every 5 minutes) with X.509 PKI certificates. Username/Password option for tunnel authorization. Separate per-tunnel password for link authorization.
- Heartbeat for tunnel keepalives; Tunnel link indication LED.
- Auto-learning with 8,192 MAC address table and unlimited hosts and networks support between LANs.
- VLAN (4,096) tagging on Client or Server; VLAN trucking out single Ethernet; InterVLAN routing.
- User selectable voluntary/compulsory and tunnel gateway modes through filters. Compulsory dictates all traffic will go through tunnel. No local-to-uplink access. Voluntary tunnel will only ARP for tunnel subnet traffic/hosts. Default Internet access via local router.
- ACL/Firewall permit/allow traffic from any interface. Separate Firewall rules for device access.
- Lossless compression—typical 20%-30% efficiency.
- Tunnel/Gateway Mode intercepts traffic for the remote LAN and tunnels only that traffic (subnet or MAC defined) to the remote.
- Configurable TCP/UDP tunnel with single port for all control & payload. No-configuration NAT and Firewall traversal.\*
- Integrated DHCP client and server, DNS server, & NTP client.
- IpTLDNS services standard and free of charge for autoconnect. Built in DynDNS client.
- Bridge tunnel support jumbo Ethernet frames including VLAN and Cisco ISL frames sizes. Default MTU 2,000.

## Operating

- Desktop operation mounting or rack mount. Rack ears included.
- One rack unit 1.75inches (44.45 mm) high by 17" (432mm) width. Rack Ears permit mounting in EIA-310-E 19" standard rack. Weight 12.1# (5.5kg)
- 100-250VAC 50/60Hz 35 Watts; power input via fused IEC-320
- Operating Temperature: 0° to 40°C Humidity: up to 90% non-condensing

## Regulatory Compliance & Certifications

- NRTL Safety: UL 60950-1, CSA C22.2 No. 60950-1
- AS / NZS 3260, TS 001
- Emissions: FCC Part 15 Class B, EN 55022A
- CE Mark, RoHS, WEEE

To learn more, contact your IPTL Representative, Authorized Reseller, or Sales Agent or visit our Web site at [www.IpTechnologyLabs.com](http://www.IpTechnologyLabs.com)

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