

FastLane™ 79R MultiPath Transport Switch

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

Secure Connectivity Simplified™

- 1 BEST Tunneling & Stable VPN
- 2 SUPERIOR Connectivity End-to-End
- 3 HIGHEST Redundancy & Availability
- 4 BEST Device Management
- 5 HIGHEST Security & Privacy

Model 79R Series Highlights

- 1RU high server connects from 1 to 1,000 remotes
- Use with a single connection for high-speed point-to-point networking
- Use as a multipoint server for 1,000's of connection terminations
- Connection licenses are field-upgradeable and perpetual
- Stack multiple Model 79R's for additional capacity or N+1/N+N redundancy
- Compatible with all IpTL appliances and fully out-of-band manageable
- Built-in 1000-230VAC power supply
- 6 Gigabit Ethernet ports Standard, single expandable network port for additional ports

Applications

- Hi-Capacity VPN server for 25-1,000 remote tunnel connections
- Datacenter connectivity with Point-to-Point Ethernet L2 LAN based connectivity
- IP Camera remote aggregation to NoC
- Work-from-Home VoIP link aggregation
- MPLS Leased-Line failover protection

The IpTL FastLane™ 79R Series MultiPath Transport Switch provides a unified aggregation point for terminating larger network deployments. Providing the connectivity, control, and configuration for multisite networking, the Model 79R provides both scalability, throughput, and redundancy.

For point-to-point networking, the M79R provides high-bandwidth, transparent, and secure communications end-to-end. Often used for data center connectivity or leased-line protection, the M79R can connect at the Ethernet/Layer-2 level offering unparalleled communications transparency without the need for network addressing changes. With the broadcast domain preserved all Ethernet-based protocols can be transported, including VLANs, mixed IPv4/v6, Multicast, and non-IP-based protocols.

For multipoint aggregation, the M79R can serve from 1 to 1,000 remote connections per appliance. For larger applications with many sites or as part of an integrated disaster recovery installation, the M79R provides transparency, bandwidth, and flexibility for each of your local or remote network connections.

Compatible with all IpTL appliances, the M79R can be configured with a single connection for high-speed point-to-point links, or 25, 50, and 100 connection license packs can be added for large remote aggregation applications. In-the-field expansion is supported by simply adding additional perpetual connection licenses.



Device Overview

- All-metal 1RUx19" enclosure with internal cooling fans and internal power supply
- Front panel LCD and control display; port LED for Eth Link Status and System status
- Integrated hardware Trusted Computing Group TPM 2.0 security root-of-trust
- Software expandable from 1 to 1,000 simultaneous connections
- Provides a transparent L2/Ethernet bridged tunnels or L3/Routed IP links, full-duplex, and transparent operation.
- Unlimited host support — no network host limitation. Unlimited Networks, Unlimited VLANs or Q-in-Q frames
- User configurable compulsory tunnels or split-tunnel operation.
- Integrated SPI Firewall with ACL's to provide granular traffic management as well as protection for both Local, Uplink, and each Tunnel.
- AutoConnect™ and Tunnel bonding, VRRP and FlexPath™ redundancy.

Network Interface

- 6x Gig-E TX Shielded Ethernet RJ-45 Ports, full duplex, autosensing, Auto-MDI-X

Management & Configuration

- Internal webserver management with selectable HTTP/HTTPS port. User-configurable admin and monitor passwords.
- 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 with the configurable server.
- Configuration export/import (encrypted) and system upgrade.
- User VLAN or Definable IP Address and Subnet Mask and Port for management.
- User-selectable enable/disable support system or real-time resource options.
- Use with IpTL Model T7700 management server for independent positive control and management of fielded appliances.

Operating

- Desktop or 19" Rackmount installation
- Operating Temperature: 0° to 40°C Humidity: 20%-90% RH; Storage: -10° to 70°C Humidity: 5-95% RH@ 55°C
- 1.7"H x 17.2"W x 11.5"L" (H:44mm x W:438mm x L:292mm);
- Power input 100-240VAC 50/60Hz via IEC 320 receptacle; Power supply 150 watts.
- Weight 13.8# pounds (kilos: 6.3kg)

Ordering Information

10700-79-00

FastLane™ 79R Multipath Ethernet Access Server, Licensed for 0 clients, 6 ports 10/100/1000 TX Ethernet with bypass, 19" Rackmount Chassis, Single UI Power Input 100-240VAC 50/60Hz; Rack Ears Included. Standard 1-year limited warranty included. Upgradeable to 1,000 clients with license packs. Can be configured for client or server. Includes FlexPath redundancy standard. Stack one or more units for full server (power, processor, etc.) redundancy. Add Annual Software Maintenance for the first year or have an umbrella maintenance agreement.

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FastLane™ 79R Series Connection Expansion License. Connection Add-On license for one tunnel connection. Adds additional capability to existing appliances operating in client or server mode to expand simultaneous connections over a single tunnel virtual network port. Additional connections can be added anytime to fielded appliances.

Operational Features

- Armored Tunnel with TLSv1.2/1.3, L2TPv3, AES-256 CBC/GCM with SHA-1/SHA-2(256/384) AEAD ECDSA & ECDHE Perfect Forward Secrecy options.
- Dynamic keying and automatic rekeying (every 5 minutes, user adjustable) with X.509v3 PKI certificates. Username/Password option for tunnel authorization. Separate per-tunnel password for link authorization. User configurable rekey based on time and/or data throughput.
- Configurable TCP/UDP tunnel with single port for all control & payload.
- Auto-learning with 8,192 MAC address table and unlimited hosts and networks support between LANs.
- Jumbo Ethernet frames with default MTU of 2K. VLAN (4,096) tagging on Client or Server; VLAN trunking out single Ethernet; InterVLAN routing. Will pass VLANs, Q-in-Q, VTP, & ISL. Jumbo 9K MTU capable.
- User configurable L2 and L3 filters on IP/Port or MAC Address. Stateful inspection processing and filtering with new, established, or related operation. Quick access buttons for immediate config.
- Lossless compression—typical 1%-20% efficiency.
- Integrated DHCP client and server, DNS server, PPPoE client, and NTP client; RealTimeResource™ DNS services & AutoConnect™ standard. Built in DynDNS client; IPShare™ with Tunnel NAT.
- Detached Ethernet/WAN interfaces with NAT and user defined port forwarding. L3 Routed tunnel mode supports full IPv4 routing and subnetting
- Full redundancy with bonded tunnel, roll-over, and VRRP.
- SuperNAC™ Identity Based Software Defined Perimeter Network Access Control features (optional license)
- RealTimeResource™ DNS services & AutoConnect™ standard. Built in DynDNS client.
- Bridged mode supports any protocols in Ethernet frames. Routed mode supports full IPv4 routing.
- IPShare™ LAN Virtualization with Ethernet/Routing Half-bridge with Tunnel NAT Permits/Forwards.
- DNS SecureSwitch™ URL based Filtering & Switching with Dynamic IP population
- Integrated Security Hardening with Trusted Platform Module - TPM 2.0; Secure Boot

Regulatory Compliance & Certifications

- CE Mark, RoHS, WEEE, FCC
- Covered by one or more of the following Patents 9294434, 9391881, 9876757, 10154005, 10469444, 10659430, 11,283,790, 11,477,276 and other patents pending

To learn more, contact your IPTL Representative, Authorized Reseller, or Sales Agent or visit our Web site at www.IpTechnologyLabs.com

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1201 S. Sharp St #303
Baltimore Maryland USA 21230
T: +1 301 570 6611
F: +1 301 570 8049
W: <http://IpTechnologyLabs.com>
E: sales@IpTechnologyLabs.com