

FastLane™ 8000 Point Source Secure Network Gateway

Cyber Resilient Hardware with TPM 2.0 Secure Element, PoE+ IN, & PoE+ OUT

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 8K Series Highlights

- Supports Local and Remote Access connections – private over the LAN
- Hacker Hardened Secure Element with integrated hardware TPM 2.0
- Key vault for Secure Boot, Secure Password, Key & Cert Storage, True Random Number Generator
- 802.1at PoE+ power in (PD)
- 802.1at PoE+ power out (PSE)
- Remote out-of-band manageable
- No Fans or moving parts
- Compatible with all IpTL remote and server appliances
- Clientless Connectivity & Security for Headless Devices

Applications

- Ransomware C2 IoT device protection including SCADA, PLCs, and Controllers
- Network protection from Backdoors, Snooping, & Spoofing, Tampering
- IP Camera protection & Identity
- NVR backhaul & Secure WAN offload
- Off-site access to Video surveillance via private VPN networking
- Microsegmentation and Zero Trust

The First Defense-in-Depth Point Source Appliance providing Cyber Resilient Device Hardening, Secure Communications, & True PoE Power & Source.

Highest Security TPM 2.0

Hardware Secure Element with TPM 2.0 hardened against cyber tampering

802.1at PoE+ PD IN

Easily powers the *appliance* from your network

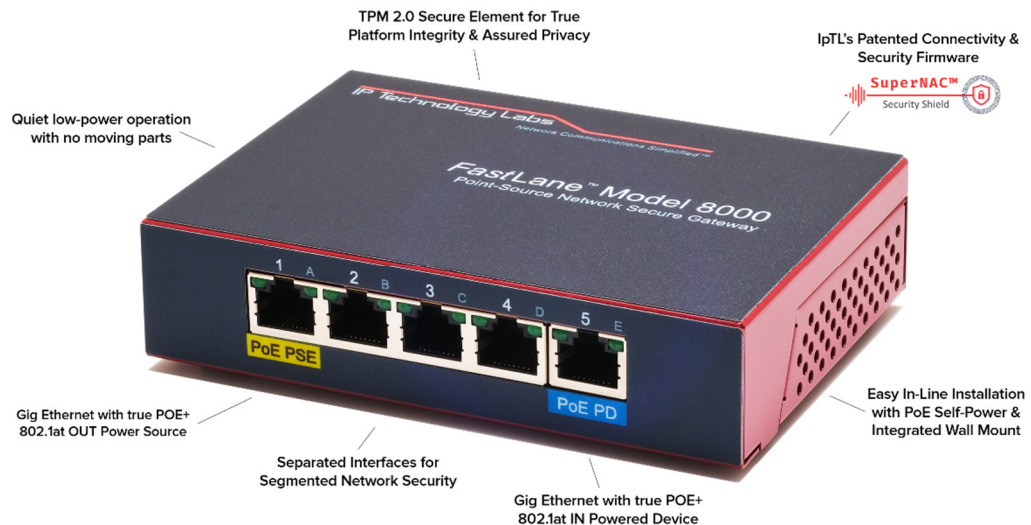
802.1at PoE+ PSE OUT

Easily powers your *devices* without injectors

Seamlessly add true end-point security to your network-based devices with the IpTL Model 8000 series Point-Source Secure Access Gateway. With integrated hardware TPM 2.0 you get secure boot, secure credentials, and true random number generator ensuring no backdoors, alteration, or insecure communication.

For maximum flexibility, we've included true standards based PoE in and out – *not* a gimmick passthrough scheme – and without external power supplies – ensuring compatibility & reliability to your entire network infrastructure.

Only IpTL provides Trust-and-Control™ by combining leading state-of-the-art hardware with our patented firmware to deliver the best tightly integrated low-cost secure connectivity solution.



Device Overview

- All-metal Enclosure with fan less quiet operation
- Per port LED for Eth Link Status and System status
- Integrated hardware Trusted Computing Group TPM 2.0 security root-of-trust and crypto processor, True random number generator
- 802.1at Class 4 PoE+ IN (PD Powered Device) – port 5 only
- 802.1at Class 4 PoE+ OUT (PSE Powered Sourcing Equipment) – port 1 only
- Software expandable from 1 to 10 simultaneous connections
- Provides a transparent Point-to-Point Ethernet tunnel bridged or L3 Routed links, full-duplex, and transparent operation.
- Unlimited host support – no network host limitation. Unlimited Networks, Unlimited VLANs
- User configurable compulsory tunnels or split-tunnel operation.
- Firewall and ACL's 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

- 5x Gig-E Shielded Ethernet RJ-45 Ports, full duplex, autosensing, Auto-MDI-X
- Port 5 interface physically and logically isolated from ports 1-4 switch; each port can be independently logically isolated.

Management & Configuration

- Internal web server 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 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 wall-mount operation mounting.
- Appliance power: PoE+ In (PD) models: 802.1at Class 4 at 48VDC at 10 watts; For External power Models: 48VDC@600mA power via barrel jack; For PoE+ Out (PSE) models appliance will regenerate power from PD or barrel jack. External hi-power supply required for full 802.1at Class 2/Type 4 30-Watt PSE output.
- Operating Temperature: 0° to 50°C Humidity: up to 5-90% non-condensing
- 1.3H" x 5"W x 3.5L" (H:33mm x W:127mm x L:89.6mm); bottom wall-mount mounting holes are 3.5" (90mm) center-to-center
- Weight 1.0 pounds

Ordering Information

10800-8555-01

FastLane™ Model 8000 Series Point Source Secure Network Gateway; 5x GigE/100/10 FDX Auto-MDI-x TX Ethernet ports, Power: 802.3at POE+ Type 2/Class 4 PD – port 5 only, 802.3at POE+ Type 2/Class 4 PSE – port 1 only; Secure Element via hardware TPM 2.0; Single tunnel connection as client or server included, optional connection licenses can be added; External 48-57VDC barrel jack power input. No external power supply included. External PS required for full 802.3at 30-Watt PSE output. Annual Software Maintenance required for first year or included under existing umbrella maintenance agreement.

0005-PSUI-48X1

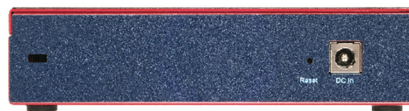
External Power Supply for FastLane Model 8000. Output: 48VDC output; 2.1mm center post; Input: 100-240VAC 50/60Hz Power Supply and interchangeable physical outlet adaptors for US/Euro/UK included. Wall Transformer Style.

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, VTP, & ISL.
- 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.
- Routed mode supports full IPv4 routing.
- IPShare™ LAN Virtualization with Ethernet/Routing Half-bridge with Tunnel NAT Permits/Forwards.
- DNS StepSwitch™ 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 Class A, UL
- Covered by one or more of the following Patents 9294434, 9391881, 9876757, 10154005, 10469444, 10659430 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

Specifications subject to change without notice. This document is for planning purposes only, and is not intended to create, modify or supplement any IPTL specifications or warranties relating to these products or services. Information and/or technical specifications supplied within this document do not waive (directly or indirectly) any rights or licenses – including but not limited to patents or other protective rights of IP Technology Labs, LLC. ©2021 IP Technology Labs, LLC All trademarks are the property of their registered owners. Rev: IPTL Model 8000 Series v.1.015

IP Technology Labs

Network Communications Simplified™

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