

FastLane™ 7151 Cellular Secure Network Gateway

Multiservice Network Connectivity, Security, & VPN appliances

Connecting People, Places, & Things™

- 1 Robust Access Router & Endpoint
- 2 BEST Tunneling/VPN Connectivity
- 3 HIGHEST Redundancy
- 4 HIGHEST Security & Privacy
- 5 BEST Device Management

Model 7151 Series Highlights

- Integrated CAT4 worldwide LTE-A, UMTS/HSPA(+)-MIMO Modem
- Dynamic IP and Private APN support
- Easiest VPN/Tunneling for any Network
- Superior Connectivity with Private IP
- Full Access Router with ACL/Firewall
- Integrated 802.11 b/g/n 2.4Ghz Wi-Fi
- Remote out-of-band manageable
- Integrated Cellular Failover/Restore with SystemMonitor™
- IoT, Physical Security/Video Surveillance, & Branch Connectivity
- Networking Support for wired & wireless devices is required
- Perfect for networks for 250 users or less
- 802.11 b/g/n Wi-Fi connects all your devices to both the LAN and the Tunnel
- Can use the Cellular and Wi-Fi as WAN uplink or access point simultaneously
- MPLS or Lease-line replacement with Active/Active redundancy
- Load-Balance and Link Aggregation supporting up to 64 independent network connections

The World's Longest Ethernet Cable™

IpTL FastLane™ 7151 Series Cellular Secure Network Gateways are designed for easy, always-available reliable remote access connectivity. With its integrated Cat-4 Cellular/LTE modem, the Model 7151 series is great for IoT/M2M, Automatic Cellular Internet Failover, Out-of-Band Management, & Remote Branch Connectivity applications.

The Model 7151 Series can be deployed as an Internet modem for remote locations with Dynamic IP or Private APN's; or a protection path for your existing Internet or MPLS Leased-line facilities. It includes all the expected networking features to integrate into your network, including full routing/forwarding, VLANs, an integrated stateful inspection firewall. In addition to the LTE modem, the 7151 provides wireless 802.11 b/g/n AP & Client as well as physical Ethernet interfaces.



External SIM (user supplied)



Device Overview

- Sturdy semi-ruggedized all-metal enclosure; cool low-power & fan-less operation. 8 status LEDs: 5x Ethernet ports - LAN port 1-4, WAN, Wi-Fi, LTE, Tunnel, Power
- Provides a single 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. Note: AutoConnect™ not suitable for LTE operation.
- Integrated Cat-4 Cellular Modem with any 4G/LTE/HSPA+, WiFi, or Wired IP connection including NAT and nested NAT environments.

Network Interface

- 5x ports 802.3TX Fast-Ethernet, RJ45 jacks; Auto-sensing all ports.
- 802.11 b/g/n 2.4Ghz Wi-Fi MIMO Access Point and Wireless Client uplink with WPA/WPA2, and MAC deny/allow ACL. Presented via dual bulkhead mount RP-SMA connectors
- Cellular 4G/LTE/HSPA+ IP Network Data Interface with MIMO access. Presented via dual bulkhead mount SMA connectors. Two pieces included of Taoglas TG.10 Cellular/LTE multiband antennas.
- Any interface can be used to establish tunnel. All interfaces can be used simultaneously

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.

Cellular Band Information

IpTL Model	
7151 Series International	
Carrier	International
LTE-FDD	B1/B3/B5/B7/B8/B20/B28/B32 B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66
LTE-TDD	B38/B40/B41
2xCA	B1+B1/B5/B8/B20/B28; B3+B3/B5/B7/B8/B20/B28; B7+B5/B7/B8/B20/B28; B20+B32; B38+B38; B40+B40; B41+B41; note: LTE-FDD B29 and B32 support receiving only, and are only for secondary component carrier in 2xCA.
WCDMA	B1/B3/B5/B8 B2/B4/B5
GNSS	GPS/GLONASS/BeiDou (Compass)/Galileo/QZSS (Optional)

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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Connectivity

- Armored Tunnel with TLSv1.2/1.3, L2TPv3, PPTPWrapper Tunnel operations with AES-256 CBC/GCM with SHA-1 or SHA-2(256/384) HMAC, key encryption ECDHE Perfect Forward Secrecy.
- Dynamic keying and automatic rekeying (every 5 minutes user adjustable) with X.509 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.
- Selectable Lossless compression—typical 20%-30% 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
- RealTimeResource™ DNS services & AutoConnect™ standard. Built in DynDNS client.
- IPShare™ LAN Virtualization with Tunnel NAT Permits/Forwards.
- Can use with Dynamic IP, including LTE interface.

Operating

- Desktop operation mounting. Integral Wall mount holes flanges
- 12VDC@1A power input via coax barrel jack
- Operating Temperature: 0° to 50°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/C, EN 55022A
- CE Mark, RoHS, WEEE, WHQL
- UAE TRA Auth: No. ER0091039/12; Oman TRA
- Cellular card interface FCC, PTCRB, IC, GCF, CE, NCC, RCM

MAX Air Interface Data Transmission per Standard

LTE-FDD Data Rate (Mbps) 300 (DL)/50 (UL) 300 (DL)/50 (UL)
 LTE-TDD Data Rate (Mbps) 226 (DL)/28 (UL) 226 (DL)/28 (UL)
 DC-HSPA+ Data Rate (Mbps) 42 (DL)/5.76 (UL) 42 (DL)/5.76 (UL)
 WCDMA Data Rate (Kbps) 384 (DL)/384 (UL)

Taoglas Antenna Details

Product Name : Triton - 2G/3G/4G Terminal Antenna for Cellular Gateways and Routers with Assisted GPS Hinged SMA(M)

Features : LTE / GSM / CDMA / GPS / DCS / PCS / WCDMA / UMTS / HSPA / GPRS / EDGE / IMT 698MHz to 960MHz, 1710MHz to 2690MHz
 Dipole Terminal Antenna
 Hinged SMA(M) Connector
 Dimensions: Length 168*18*13mm, Ø13mm
 RoHS Compliant



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