

# 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

- Full access Router with Firewall
- Integrated 4G/LTE/HSPA+ Modem
- Integrated 802.11 b/g/n Wi-Fi
- External antenna Connectors
- Sturdy all metal enclosure
- Integrated wall mount flanges
- 8 LED Status Indicators
- 5 Wired Ethernet ports
- 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™

The IpTL FastLane 7151 Cellular Secure Network Gateway provides a 4G/LTE modem, wired Fast-Ethernet, and wireless 802.11 b/g/n connectivity in a single tightly integrated package. With all interfaces, capable of simultaneous, as well as fall-back/fall-forward operation, the 7151 is perfect for IoT, Physical Security, and Branch Office connectivity.

The 7151's Cellular Modem is essentially two high-speed modules in one.\* An LTE 3GPP Release 9 module delivering data rates of 100 Mbps downlink and 50 Mbps uplink and an HSPA+ module delivering up to 42 Mbps downlink and 5.76 Mbps uplink rates. The 7151 automatically falls back to HSPA+ if it is unable to register onto an LTE network.\*

For redundancy and failover applications, the M7100 Series can connect to multiple networks and provide active/active failover as well as link-bonding over multiple Internet services. Additionally, the cellular can use the wireless network in either hot or passive standby with automatic failover/fallback. Redundancy is network transparent and does not require any reconfiguration of networking parameters or infrastructure.



External SIM (user supplied)



\* international

## Device Overview

- Sturdy all-metal enclosure; cool low-power & fan-less operation. 8 status LEDs: System, Ethernet, Tunnel, Firewall
- Provides a single Transparent Point-to-Point Ethernet tunnel bridged or L3 Routed links, full-duplex, and transparent operation.
- Auto-discovery of tunnel end-points through NAT/Routers/Proxy's.
- Unlimited host support — no network host limitation. Unlimited Networks.
- 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™, FastLaneNBX™ and FlexPath™ redundancy.
- Connect with any 4G/LTE/HSPA+, WiFi, or Wired IP connection including NAT and nested NAT environments.

## Network Interface

- 5 ports 802.3TX Fast-Ethernet, RJ45 jacks; Auto-sensing all ports.
- 802.11 b/g/n WiFi Access Point and wireless client uplink with WPA/WPA2, and MAC deny/allow.
- Cellular 4G/LTE/HSPA+ IP Network Data Interface with MiMo access
- Any interface can be used to establish tunnel. All interfaces can be used simultaneously

## Management & 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 with configurable server.
- User Definable IP Address and Subnet Mask and Port for management.
- DHCP client for automatic address with simultaneous static secondary IP.
- Use with IpTL Model T7700 management server for independent positive control of endpoints via separate independent routed tunnel. Can run HTTP/SNMP/Syslog.

## Redundancy & High-Availability

- Active/Active Multipath Redundancy, WAN Link Auto failover with Multiple Internet Providers
- Active Deadpeer detection with Multisite uptime failover mechanism.
- No MAC Spoofing VRRP / HSRP Failover.
- Multi-interface Link Bonding & Load balancing- up to 64 links

Carrier	IpTL Model		
	7151-01	7151-02	7151-03
LTE Bands	800 (B20) / 1800 (B3) / 2600 (B7)	700 (B13) / AWS1700 (B4)	700 (B17) / 850 (B5) / AWS1700 (B4) / 1900 (B2)
UMTS   HSPA+ Bands	850 (B5) / 900 (B8) / 2100 (B1)	N/A	850 (B5) / 1900 (B2)
GSM   GPRS Bands	900 /1800	N/A	850 / 1900

## Ordering Information

- 10070-7151-01** Secure Network Gateway with integrated Wi-Fi & 4G/LTE and 5x Ethernet TX Ports Integrated International 4G/LTE modem with external SIM slot
- 10070-7151-02** Secure Network Gateway with integrated Wi-Fi & 4G/LTE and 5x Ethernet TX Ports Integrated Verizon (USA) 4G/LTE modem with external SIM slot
- 10070-7151-03** Secure Network Gateway with integrated Wi-Fi & 4G/LTE and 5x Ethernet TX Ports Integrated ATT (USA) 4G/LTE modem with external SIM slot

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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## Connectivity

- TLS, L2TPv3, PPTPWrapper Tunnel operations with AES-256 CBC key encryption (selectable DES-EDE3-CBC,3DES-CBC, Blowfish-CBC). Perfect Forward Secrecy.
- Configurable TCP/UDP tunnel with single port for all control & payload. No-configuration NAT and Firewall traversal.
- Dynamic keying and automatic rekeying (default every 5 minutes) with X.509 PKI certificates. Username/Password option for tunnel authorization. Separate per-tunnel password for link authorization.
- 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 (4,094) tagging on Client or Server; VLAN trunking out single Ethernet; InterVLAN routing. Will pass VLANs, VTP, & ISL.
- 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.
- Integrated DHCP client and server, DNS server, & NTP client.
- RealTimeResource™ DNS services & AutoConnect™ standard. Built in DynDNS client.
- Routed mode supports full IPv4 routing.
- IPSharing™ HalfBridge with Tunnel NAT Permits/Forwards.

## 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.
- DSCP/TOS priority into three queues. E.g. EF = priority queue 0

## 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
- UAE TRA Auth: No. ER0091039/12; Oman TRA
- 4G/LTE card interface FCC, PTCRB, IC (North America, GCF (Europe)
- Output power - Class 4 (2 W, 33 dBm) @ GSM 850/900 - Class 1 (1 W, 30 dBm) @ GSM 1800/1900 - Class E2 (0.5 W, 27 dBm) @ EDGE 850/900 - Class E2 (0.4 W, 26 dBm) @ EDGE 1800/1900 - Class 3 (0.25 W, 24 dBm) @ UMTS - Class 3 (0.2 W, 23 dBm) @ LTE

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Network Communications Simplified™

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