

# FastLane™ 7004 Cellular Secure Network Gateway

Multiservice Network Connectivity, Security, & VPN appliances for Verizon

## 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 7004 Series Highlights

- Integrated CAT4 LTE FDD 3GPP Rel 0 MIMO Modem – Verizon Certified
- Dynamic IP and Private APN support
- Easiest VPN/Tunneling for any Network
- Superior Connectivity with Private IP
- Full Access Router with ACL/Firewall
- 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
- 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 7004 Cellular Secure Network Gateway provides an LTE modem and wired Fast-Ethernet connectivity in a single tightly integrated package. As a Verizon certified appliance, all interfaces, capable of simultaneous, as well as fallback/fall-forward operation, the Model 7004 is perfect for IoT, Physical Security, and Branch Office connectivity.

For redundancy and failover applications, the Model 7004 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.

This is an official Verizon ODI Certified appliance.



External SIM (user supplied)



\* Model 7004 is for Verizon only

## 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, 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 LTE Verizon Certified Cellular Modem

## Network Interface

- 5x ports 802.3TX Fast-Ethernet, RJ45 jacks; Auto-sensing all ports.
- Cellular LTE FDD CAT 4 3GPP Release 9 with RX Diversity and MIMO DL 2x2. 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	
Model 7004 - Verizon Certified	
Carrier	Verizon
LTE-FDD	B2(1900), B4(AWS1700), B13(700)

## MAX Air Interface Data Transmission per Standard

LTE-FDD Data Rate (Mbps) 150(DL)/50 (UL)

## 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
- Power Class 3 (0.2 W, 23 dBm) @ LTE - Class 3 (0.25 W, 23 dBm) @ 3G - Class 4 (2W) @ GSM 900 - Class 1 (1W) @ DCS 1800

## 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



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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