

# FastLane™ 7004 Cellular Secure Network Gateway

Multicarrier Connectivity, Ethernet, & VPN in a single Multicarrier appliance  
 Certified with AT&T, T-Mobile, & 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 LTE FDD and WCDMA CAT-4 Modem
- Certified for AT&T, T-Mobile, & Verizon networks – Automatic Carrier Select
- Dynamic IP and Private APN support
- Works with Private IP and Carrier Grade NAT or Carrier Static IP
- Easiest secure VPN/Tunneling for any remote network
- Connect WITHOUT using P2P, Relay, or Platform service – your Data is Direct
- Full Access Router with ACL/Firewall
- Segment or isolate multiple networks
- Integrated Cellular Failover/Restore with SystemMonitor™
- Remote out-of-band manageable
- Use as a standalone Cellular Internet Router
- Use as Failover-to-Cellular backup to existing Ethernet-based connectivity
- Small Branch office deployments
- Physical Security Access Control panel remote access
- Video Surveillance / IP Cam / NVR connection and control to a central headed

## The World's Longest Ethernet Cable™

The IpTL FastLane™ 7004 Cellular Secure Network Gateway provides an embedded certified multicarrier LTE modem, wired Fast-Ethernet connectivity, and secure VPN/Tunneling within a single tightly integrated package. Never worry if you have the right model on-hand...now, a single Model 7004 will automatically support AT&T, T-Mobile, or Verizon networks. As a full access router the Model 7004 can be used as Cellular Internet router for locations without networking or provide automatic cellular failover protection to existing access. The VPN/Tunneling works across private and dynamic IP as well as Carrier-Grade NAT. Security ensures data-in-motion is private as well as providing a transparent end-to-end connectivity to your devices.

With its superior connectivity, robust security features, network integration features, and remote management capabilities, the Model 7004 leads in reliable and efficient networking when connecting remote sites, enabling IoT deployments, or ensuring business continuity.



## 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™ may not be suitable for LTE private IP operation.
- Integrated Cat-4 LTE T-Mobile Certified Cellular Modem

## Network Interface

- 5x ports 802.3TX Fast-Ethernet, RJ45 jacks; Auto-sensing all ports.
- Cellular LTE FDD CAT-4 RX Data only; Bands: LTE-FDD: B2 / B4 / B5 / B12 / B13 / B14 / B66 / B71; WCDMA B2 / B4 / B5;
- Diversity and MIMO DL 2x2. Presented via dual bulkhead mount SMA connectors.
- Any interface can be used to establish tunnel. All interfaces can be used simultaneously

## Management & Configuration

- Internal webserver management with selectable HTTP/HTTPS port. User-configurable admin and monitor passwords.
- SNMPv1 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 & internal/external Netflow collector and display.
- 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.

## Connectivity

- 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 9K support. 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
- SystemMonitor™ 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 SecureSwitch™ URL based Filtering & Switching with Dynamic IP population
- Integrated Security Hardening with Trusted Platform Module - TPM 2.0; Secure Boot
- 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 power approximate average 250mA with peaks to 280mA
- 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

## Ordering Information

**10070-7004-01ATV** FastLane™ 7004 Cellular Secure Network Gateway with integrated Cat-4 LTE modem and 5x Fast-Ethernet TX ports. Certified multicarrier support for ATT, T-Mobile, & Verizon; Data only bands LTE-FDD: B2/B4/B5/B12/B13/B14/B66/B71; WCDMA B2/B4/B5; Single external SIM slot; Dual external antenna bulkhead SMA connectors, Includes two removable multi-band cellular antennas; Includes one tunnel connection for either local or remote operation. Includes UI 100-240VAC 50/60Hz Power Supply. Must include Annual Software Maintenance for the first year or have an umbrella maintenance agreement.

**NOTE: This model supports all ATT, T-Mobile, & Verizon Cellular proviers. This model replaces the -01VZ (Verizon only) and -01TM (T-Mobile only) product versions.**

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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