

FastLane™ 7004 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 7004 Series Highlights

- Full access Router with Firewall
- LTE Modem Cat 4 3GPP rel. 9
- MiMo 2x2 External antennas
- Sturdy all metal enclosure
- Integrated wall mount flanges
- 8 LED Status Indicators
- 5 Wired Ethernet ports
- Verizon ODCC Certified option
- IoT, Physical Security/Video Surveillance, & Branch Connectivity
- Networking Support for wired & wireless devices is required
- Perfect for networks for 250 users or less
- 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. With 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.



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 LTE, or Wired IP connection including NAT and nested NAT environments.

Network Interface

- 5 ports 802.3TX Fast-Ethernet, RJ45 jacks; Auto-sensing all ports.
- Cellular LTE IP Network Data Interface with 2x2 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

Connectivity

- TLSv1.2, 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; 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
- Verizon ODCC Certification (Verizon model only)

Carrier	IpTL Model		
	7004 International	7004 Verizon	7004 ATT
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

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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