

Model 7151 Product Presentation

Secure Network Gateway with Embedded CAT-4 LTE Modem



Securing the Insecure
Connecting the Unconnected

Secure Connectivity Simplified™

We design & manufacture appliances that remove cyber risks, lowers costs, & simplifies remote access

Eliminate Cyber Risks from device-based threats like backdoors, spoofing, & tampering without rip-outs

Simplify & Lower-costs with Higher Security when networking remote access devices between sites

We Design Appliances for Secure Connectivity

Founded in 2009, HQ Baltimore, Maryland USA

USA Product, Development & Source Code

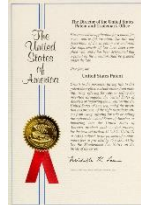
Technology: 6x Patents, Trade Secrets, Know-How

100+ Years in Serial, Modems, Ethernet, & IP

Go to Market: Sell globally – Support locally

Global from the start – used in 73+ countries

We do it All: Engg, Manufacturing, & Logistics



1.1 Summary of Findings

Configuration: The device was configured for testing with the following settings (in the raw data):

- No default accounts
- A default SSL configuration on port 80 for web management with the CA imported to the system
- A straight tunnel to an internal network host was running during all tests
- There was no connectivity to the support center or real time resource
- UDP was turned off (by default)
- An external NTP was configured to 0.north-america.pool.ntp.org
- DNS was ported to OpenDNS and validated by the Fortinet cloud DNS
- Internal DNS was turned off

Nessus: The full PCI Internal and External results are in the raw data with an executive report in this outline as Appendix 1. Due to the nature of PCI DSS audits on security equipment there can be no common vulnerability scoring system (CVSS) over a 4.0 for any vulnerabilities, this includes the Medium severities as well as Highs and Critical. The grades are not based on security but instead based on PCI compliance for the device, in this case the security of the device is also A+.

Table 1: Internal and External Nessus Vulnerability Scan Results					
Findings	Critical	High	Medium	Low	Grade
Internal PCI Nessus Scan	0	0	0	0	A+
External PCI Nessus Scan	0	0	0	0	A+

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What People Say - The Customer's we Keep

"Today I ran over 30 concurrent calls over tunnel and **it worked perfect without any lag and issue.** - Amir, VoipLeaders

"Our office is working fine – **your device is much reliable**"
– Essam, Accorac

"**Tunnel is solid!** no issues at all." - Sandeep, Dragon Oil/ENOC

"Product to report the **tunnel is up and stable**"
- Jon, Medical Billing

"*Very Clever!* ...the system **worked without any glitches.**"
– Diaa, Honeywell

"Once again, thank you for all the **excellent support**; an **excellent product** at a **very attractive price** level." - Amer, Sony Dist

"**Saved the Day--** Your **redundancy kicked-in twice** when I was on holiday." - Dr. Robin, Veterinary Clinics



Honeywell

AVAYA

SITA



AbelCine



Model 7151 Cellular Secure Network Gateway

- **Integrated International 4G/LTE/UMTS/HSPA+ Modem & Wi-Fi & Wired Ethernet in one tightly managed package**
- **Use as a Cellular Modem or for auto-failover/redundancy**
- **IoT Applications – Physical Security, Sensors**
- **ATM, Access Control, IP Cameras**
- **Full Branch Office Connectivity**
- **Full featured Robust Ethernet Access Router**
- **Multi-port Active/Active or Active/Passive failover/fallback-restore**
- **Secure Armored Tunnels on any port**
- **Use Cellular, Wi-Fi uplink and access point, & Ethernet simultaneously**
- **Dynamic IP supported; Private APN supported**
- **Expandable to multiple port tunnels**



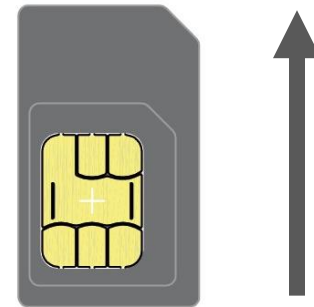
Model 7151 Hardware Highlights

- **Semi-ruggedized compact all metal enclosure with integrated flange wall mounts**
- **Front panel status indicators**
- **Silent operation – No moving parts**
- **Low-Voltage DC power input 12V@1A**
- **10°- 40°C Operating temp**
- **10% - 90% Humidity**
- **5x Fast Ethernet ports (auto MDI-X)**
- **2x 5dBi RP-SMA Antenna ports (with high-quality Taoglas antennas)**
- **2x 2dBi SMA Antenna ports**
- **External SIM Slot for Cellular Modem**



SIM Card Details

- Uses 2FF “standard” sized SIM cards
- External access on side of appliance
- Spring loaded secure insertion
- Install as shown - with “pads” up
 - 1) Power down appliance
 - 2) Insert SIM
 - 3) Power up applianceNote: Power Cycle required changing or installing the SIM!
- To use the Cellular modem, a SIM with an active data plan is required (not supplied by IpTL)
- The Model 7151 will work without a SIM with Ethernet Wi-Fi, and Tunnel



2FF - Mini SIM

Cellular Air Interface Compatibility

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)

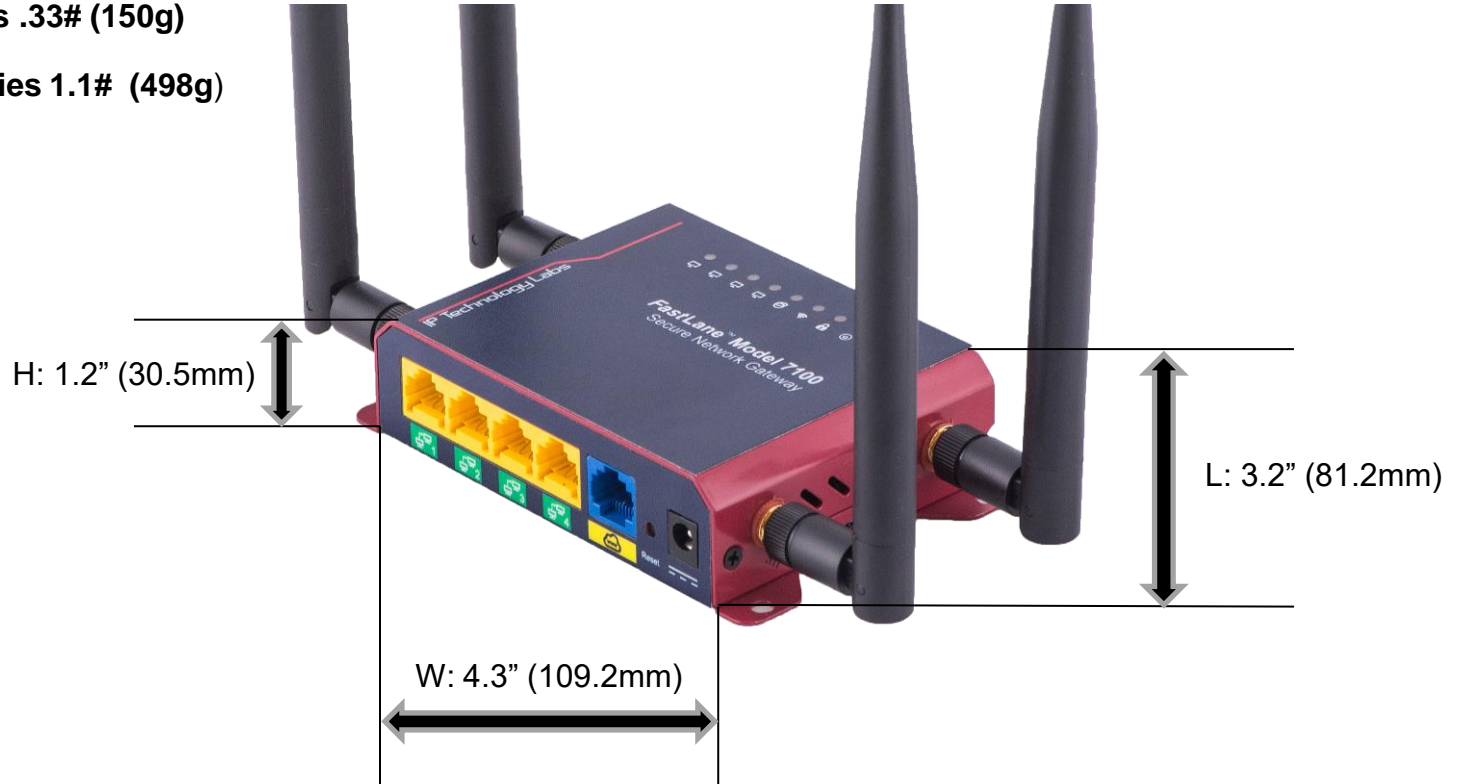
* EP06 Radio

Dims & Weights

Weights

Appliance with Antennas .33# (150g)

Product box & accessories 1.1# (498g)



Box and Accessories

Total Box weight and Dims

Box Dims 6.75" x 10.5" x 2.5"
(172mmx 266mm x 64mm)

Full product shipping weight 1.1# (498g)

Accessories included

- Universal Power Supply 100-240V
- Includes US, Euro, UK adaptors (intl)
- Ethernet Cable
- 2x 5dBi RP-SMA Antennas (Taoglas)
- 2x 2dBi SMA Antennas



Supplied Antennas for Superior Connectivity

IpTL provides high-quality multiband gain antennas for optimum connectivity



- 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,Φ13mm **RoHS Compliant**

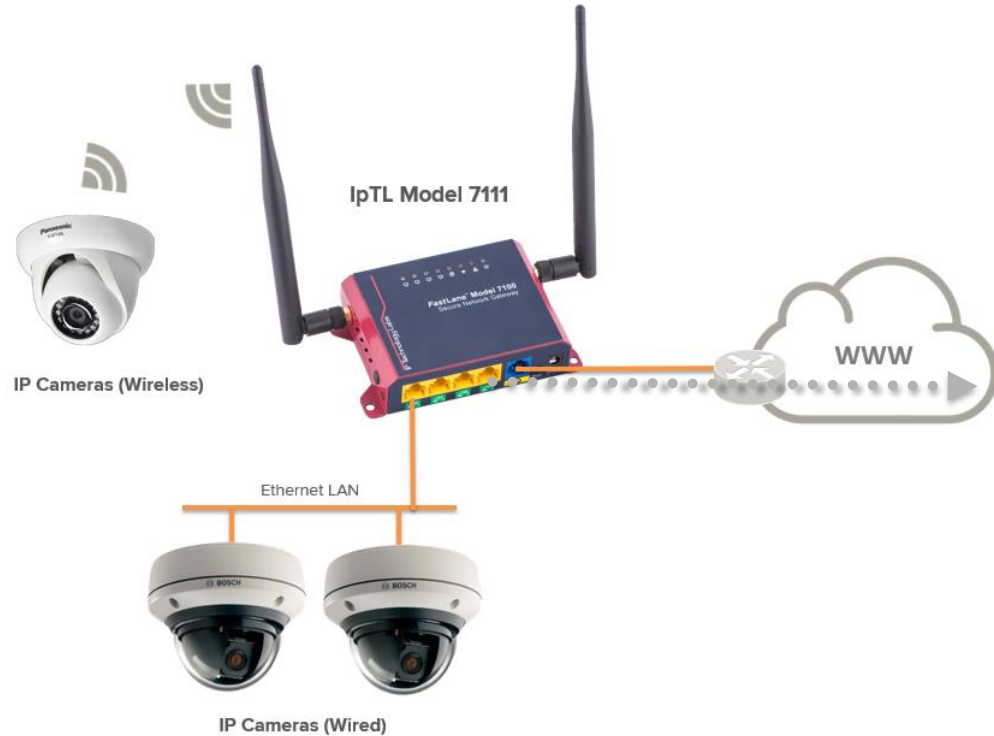


IoT – IP Camera Application

Aggregate sensors, controls, & monitors securely

End-to-End Security and Attribution for all Media stream – (Video & Audio)

Seamless application and DVR/NVR control



Redundant Providers Application

Branch Office Redundancy

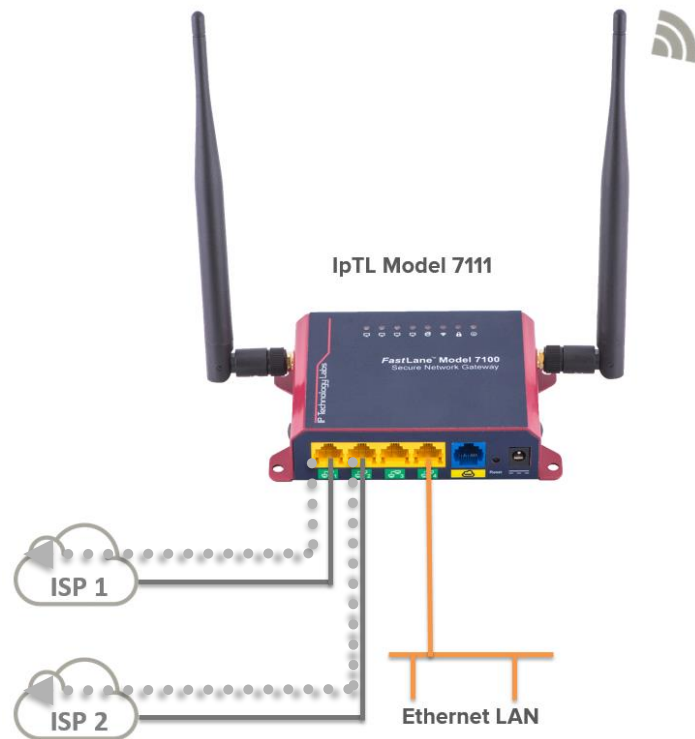
Up to 64 providers (logical)

Multi-ISP Failover/Fallback

Tunnel Bandwidth Aggregation

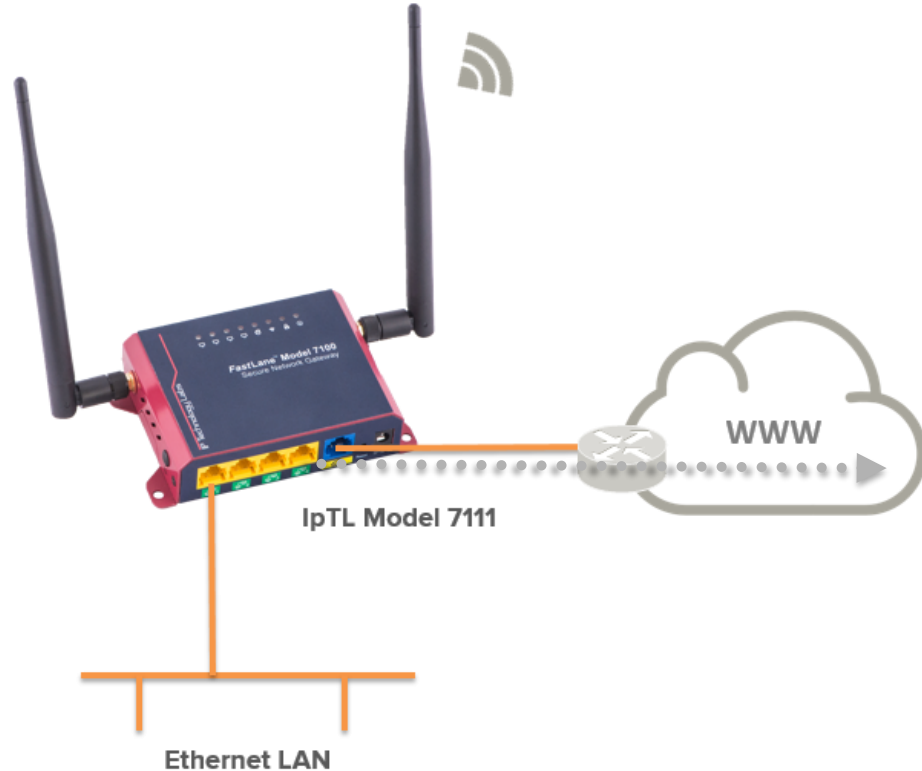
Traffic Steering Opportunities

E.g. HTTP out ISP1; email out ISP2



Typical Remote LAN Application

- SoHo Branch Connectivity**
- Split or Compulsory Tunnel**
- 802.11n Wi-Fi Access Point**
- Full Access Router**
 - DHCP server/client
 - DNS server/client
 - Firewall SPI & ACL's



Q: I've used the Model 71-04 before, can the Model 7151 be used instead?

A: Yes, the Model 7151 is the replacement for the M71-04 and adds additional functionality, additional ports, and a robust metal enclosure.

Q: Which IpTL servers is the Model 7151 compatible with?

A: The appliance is fully compatible with all IpTL appliances in either server or remote modes.

Q: Can I use the Cellular for auto fail-over/redundancy or backup?

A: Yes, you can automatically use the Model 7151 to provide automatic protection for existing networking facilities.

Q & A

Q: What the data rates I can expect on cellular?

A: This depends on the Carrier network and RF parameters. This table indicates the max upload and download transmission

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)

Q: Can I use the Model 7151 as just a Cellular modem for remote Internet?

A: Yes, you can use the appliance as an Internet Cellular Router. Use of IPTL Tunnels is not required for operation.

Q: Which servers is the 7151 Tunnel compatible with?

A: All IpTL Clients, Remotes, & Servers are compatible and fully interoperable with each other.

What can you do with IpTL Appliances

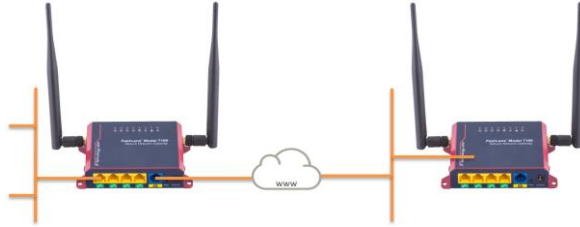
- **Easily & Quickly connect** offices together – including VoIP
- **Encrypt Video** RTSP end-to-end – control device access
- Provide **remote network access** to your customer's network **without changing** their Router, Network, or using "TeamViewer"
- **Connect and View cameras** remotely **without a P2P** or Relay Server
- **Prevent spoofing, snooping, and tampering of devices**
- Easily and securely **connect physical devices to "the cloud"**
- Provide **High-Availability** with the fastest **Failover**/Restore Solution



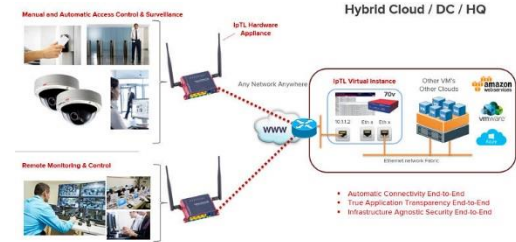
Application Areas for IpTL



Ethernet Extension and Secure Ethernet LAN over the Internet



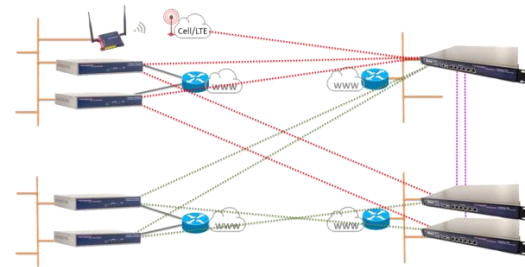
Network Access Control & Infrastructure Security



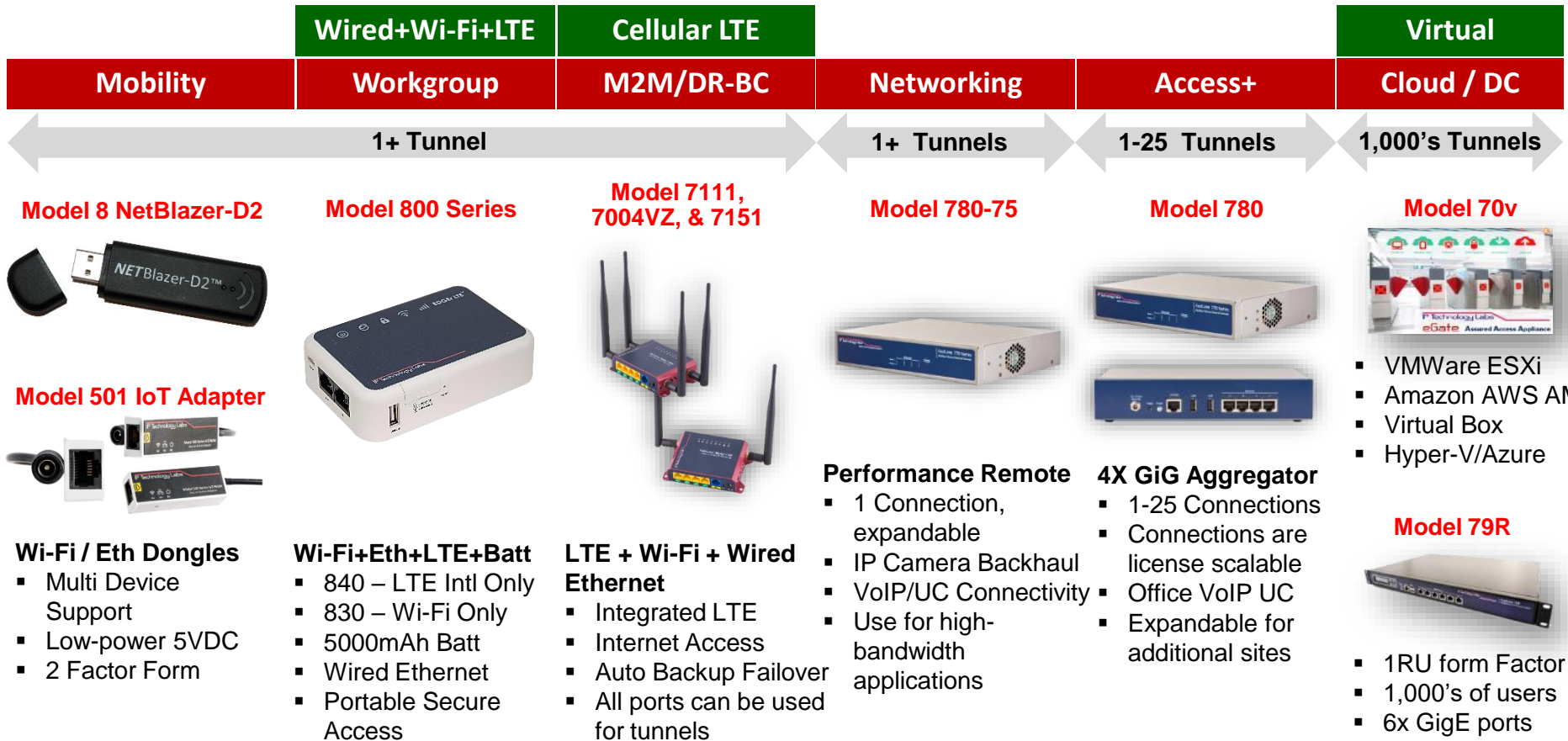
Secure Remote Access for Devices, IoT, & OT



Cellular Connectivity & Failover for any WAN



Scalable 1 to 1,000 of Networks- Endpoints, Servers, & Cloud



Why to Buy - How Does It Compare?

6

6 Reasons to Consider IpTL

Easiest Tunneling

VPN for IP Cams, Access Control, Alarms, & Ethernet OT

Superior Connectivity

End-to-End even with Dynamic IP

Highest Availability

Redundancy, & Resilience

Best Management

Full-touch out-of-band access

Highest Security

Integrated device-based 2-Factor NAC attribution

Best Privacy

Not a P2P service - data is direct between your sites

...while lowering all costs, decreasing rollout time, & removes deployment risks and delays

The table is a detailed comparison chart with multiple columns and rows. The columns are labeled with various metrics and categories, and the rows list different services or features. The data is represented by colored bars (red and blue) indicating performance or availability levels for each category. The table is partially obscured by a large shadow.

Thank you for your Attention!

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