

EION BYTES

The official solution update of EION Wireless



High Standards for Best WISP Deployments

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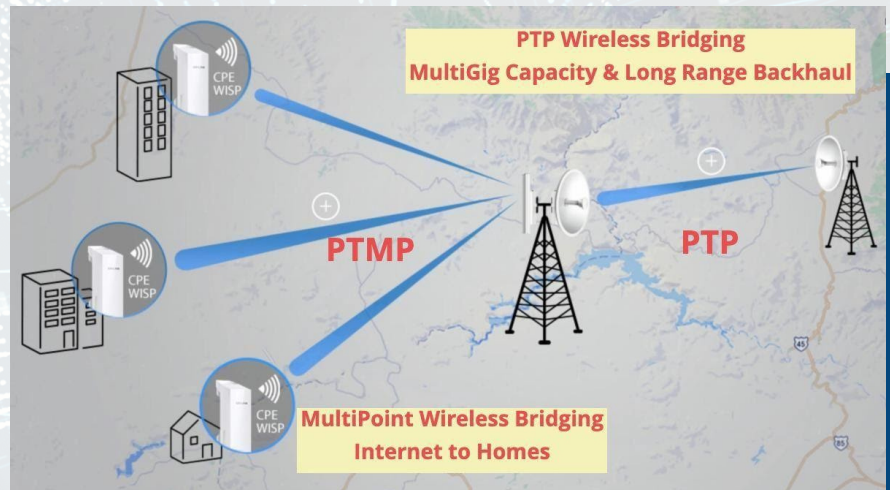
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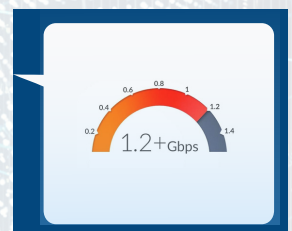
The Architecture



PTP Wireless Bridging Backhaul

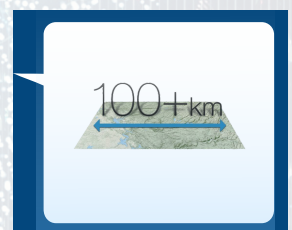
Throughput: Up to 1.2 Gbps

The latest development in the wireless industry delivers revolutionary performance, surpassing conventional wired backhaul. We can deliver real throughput of up to 2 Gbps (based on frequency and distance).



Range: 100+ Km

The newly developed radios are designed to be high-performance, at a range of up to 100+ Km. Selected output power and antenna gain must be calculated to achieve this.



Low Latency: <1ms Latency

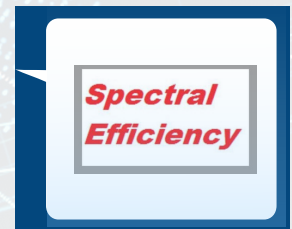
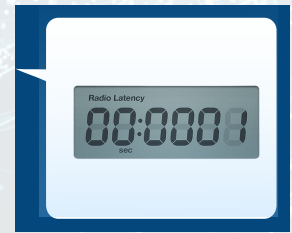
Increased efficiency for Carrier Class Network Backhuls is a central feature. Ultra-low latency is extremely important for successful WISP and enterprise operations in many applications.

Frequency: 5 GHz, 11, 24, 60 GHz

5 GHz will be perfect for the long-range backhuls. Higher bands will be perfect for Interference-free transmission. 11 GHz can also provide long-range backhaul of 50+ km. 24 GHz can go up to 30+ km and 60 GHz can go up to 12+ km. Careful design is required to select the right frequency.

Spectral Efficiency: 21.2 bps/Hz

Superior speed in Wireless means superior spectral efficiency. New techniques allow transmission of new packets without waiting for an acknowledgement OF the previously received packet. New techniques help eliminate latency and increase spectral efficiency.



PTMP Wireless Bridging Backhaul

- Client Capacity (Per Sector): 125 Households
- PTMP Sector Throughput: Up to 1.3 Gbps
- Spectral Efficiency: 21.2 bps/Hz
- Range: 30+ Km
- Frequency: 5 GHz



Solution

TeraLink 5400 Gen2 4.9 to 6.0 GHz Outdoor PTP & PTMP Radio

- IEEE 802.11ac Wave-2 compliant and backward compatible with 802.11a/n.
- 2 x 2 MIMO up to 867 Mbps PTP Radio.
- Supports public safety frequency band 4.9GHz.
- Frequency Range: 4.940 GHz to 6.0 GHz.
- Channels: 5 and 10 MHz along with 20, 40 and 80 MHz.
- Output Power: Up to 27 dBm per chain or aggregated 30 dBm.
- Dual GigE ports or 1xGigE 1xFibre port.
- Antenna Options: External high gain antenna or integrated 24dBi antenna.
- IP67 metal rugged enclosure.



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