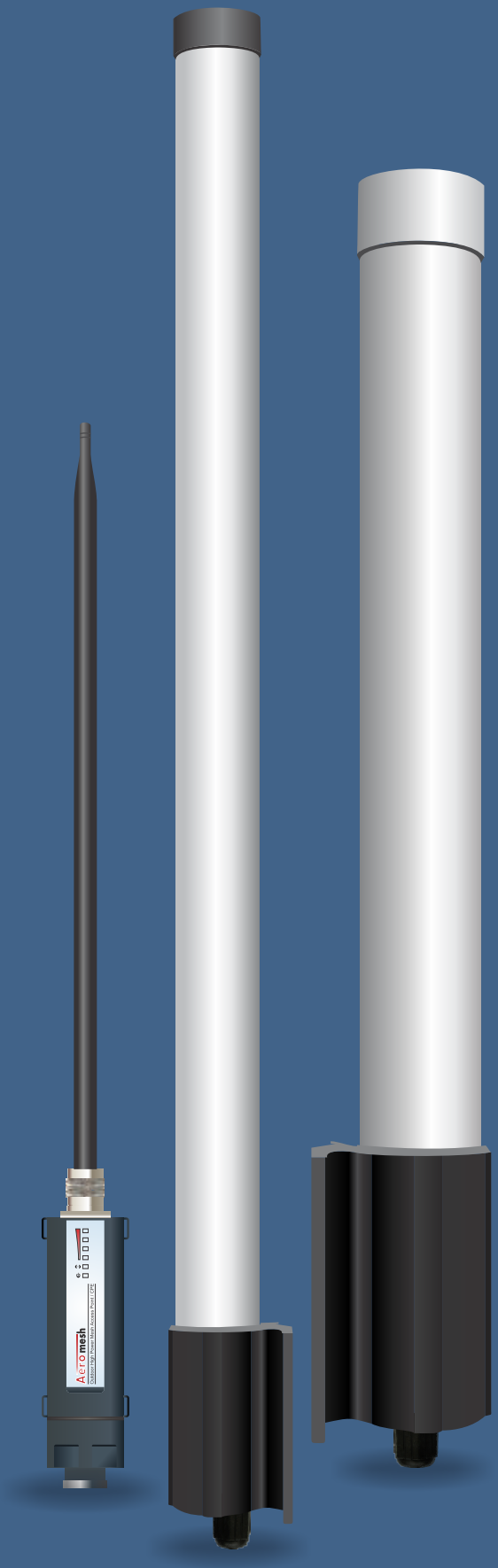
Outdoor

Point to Multi-Point

Connectivity

- Mesh AP/CPE
- 120° Wide Angle Coverage
- 360° Coverage
- CPE/Station



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About Us

The first and only manufacturing set up of wireless and green power equipments in Middle East and Africa Region.

OTAi is committed to deliver always-on-reliable enterprise scale wireless infrastructure for Voice, Data and Video traffic and impervious to interference and harsh environmental conditions from -20° to +80°.

OTAi's enterprise scale wireless solutions are robust, feature rich and cost effective. It can be easily scaled / upgraded to all future requirements of any organization.

The resilient products provide Point to Point, Point to Multi-Point and Any Point to Any Point Enterprise WAN connectivity used for enhancement of Public Safety Networks, secure long distance Enterprise connectivity between multiple locations. Organizations such as Governments, SME, Oil Fields, Defense, Telecom & Wireless Internet Service Providers, Schools, College Campus, Hotels, Hospitals, Airports, Coffee Shops, Warehouse etc can be connected over wireless to their central database for increase efficiency.

OTAi's is the leading last mile solutions provider using OFDM based 802.11a/g, 802.11-N and 802.16 Wi-max technologies to suit the most harsh environment and capable of delivering long distance Point to Point, Point to Multi-Point networks.

Enterprise Wireless Connectivity

Communication over IP (data networking) for high speed Voice, Data & Video has become a major part of today's business. Seamless wireless connectivity across the enterprise has always been a feather to any organization which allows real time connectivity and usage from a centralized database.

The demand for this connectivity is always on the rise even during recession, thereby protecting the organizations ROI and bottom-line.

Our solution are

- Extremely smart, comprehensive and cost effective.
- Fully customized design for best efficiency even in harsh environmental conditions.
- Enterprise outdoor long distance Point to Point & Point to Multi-Point connectivity.
- Enterprise Wi-Fi solution for Villas, Hotels, Institutes, Hospitals, ISP's, SMB etc..
- Solar power solutions to back remote installations.

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Aero mesh AP 150

Aero mesh is the most advanced high power outdoor Access Point equipped with enterprise grade operating system.

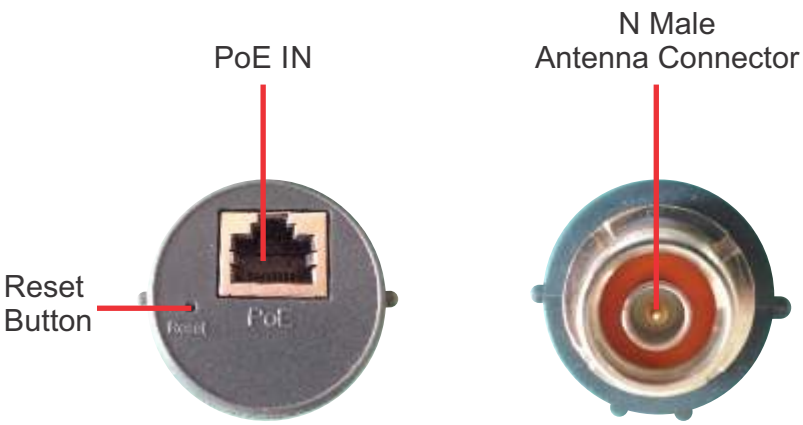
OMNI Antenna	–	5 dBi
Frequency	–	2.4 Ghz
Speed	–	150 Mbps

Applications

- Point to Point
- Point to Multipoint
- Any Point to Any Point
- Wi-Fi Mesh Repeater
- Range Extender

L3 Mesh Technology

Seamless Roaming Single Channel & Single SSID Network



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Tera mesh

Tera mesh is the most advanced outdoor Mesh AP / CPE with mobility controlling functionality to create feature rich carrier class outdoor Access Point

OMNI Antenna	–	16 dBi
Frequency	–	2.4 Ghz
Speed	–	150 Mbps

Applications

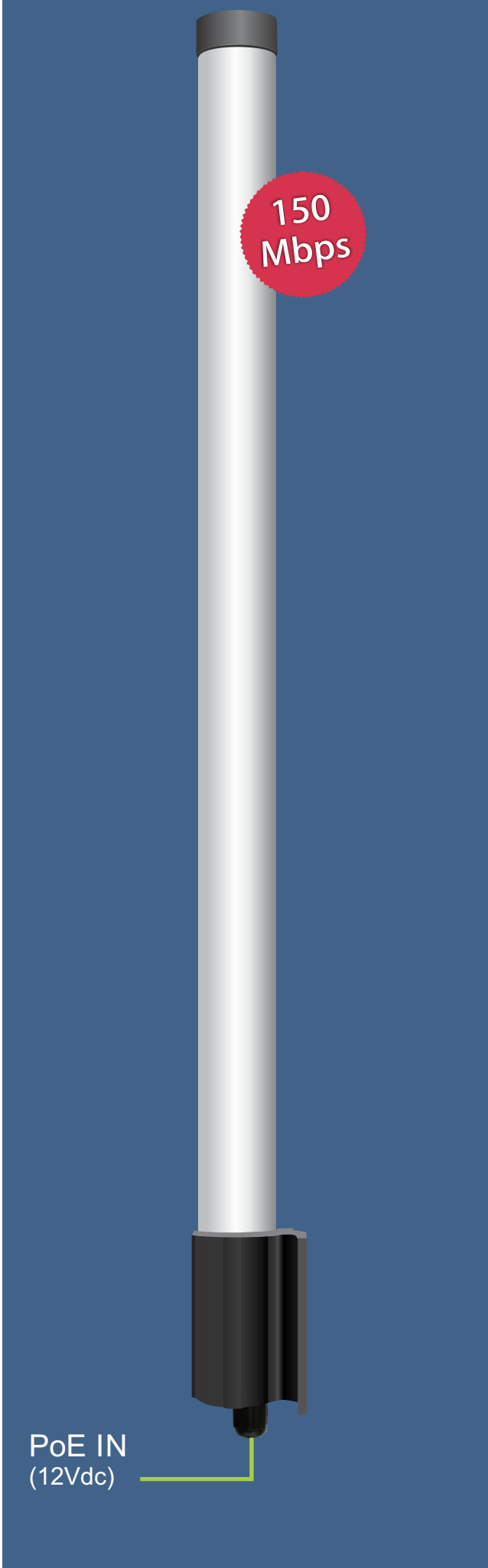
- Point to Point
- Point to Multipoint
- Any Point to Any Point
- Wi-Fi Mesh Repeater
- Range Extender

Mesh Technology

Seamless Roaming Single Channel & Single SSID Network

Advanced networking features include VLAN Tagging, Firewall, NAT, QoS and bandwidth management. The advanced routing offers operating modes of Gateway / BGP / RIP2 & OSLR. PPTP, L2TP, PPPoE Server / Client & Static IP routing options.

Unique features like DHCP forwarding for fast Roaming, Authentication via captive portal, Integrated HotSpot Clients such as Sputnik / Chilli Spots / HotSpot System, OSPF & OSLR RF Routing, (-105) RX Sensitive, STP Protocols and advanced QoS make Teramesh one of the best mesh solutions in the world.



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Power mesh

2 x 2 MIMO

Power mesh is the most advanced outdoor Mesh AP / CPE with mobility controlling functionality to create feature rich carrier class outdoor Access Point.

OMNI Antenna	–	12 dBi
Frequency	–	2.4/5.0 Ghz
Speed	–	300 Mbps

Applications

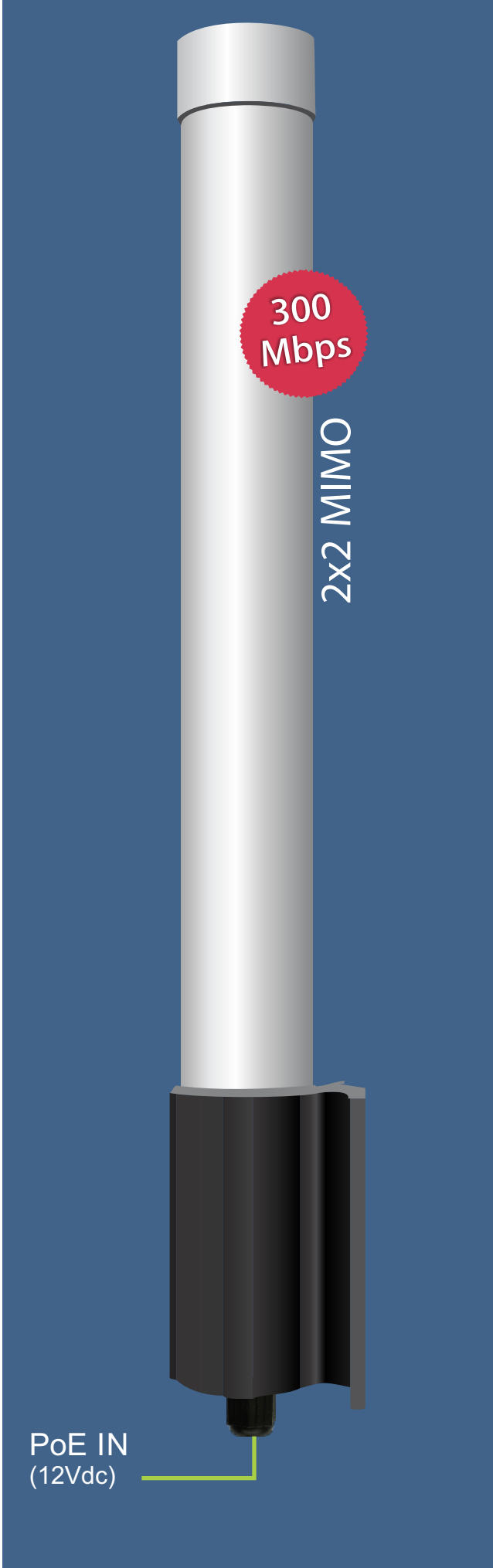
- Point to Multipoint (OMNI BTS-CPE)
- Any Point to Any Point
- Wi-Fi Mesh Repeater / Range Extender

Mesh Technology

Seamless Roaming Single Channel & Single SSID Network

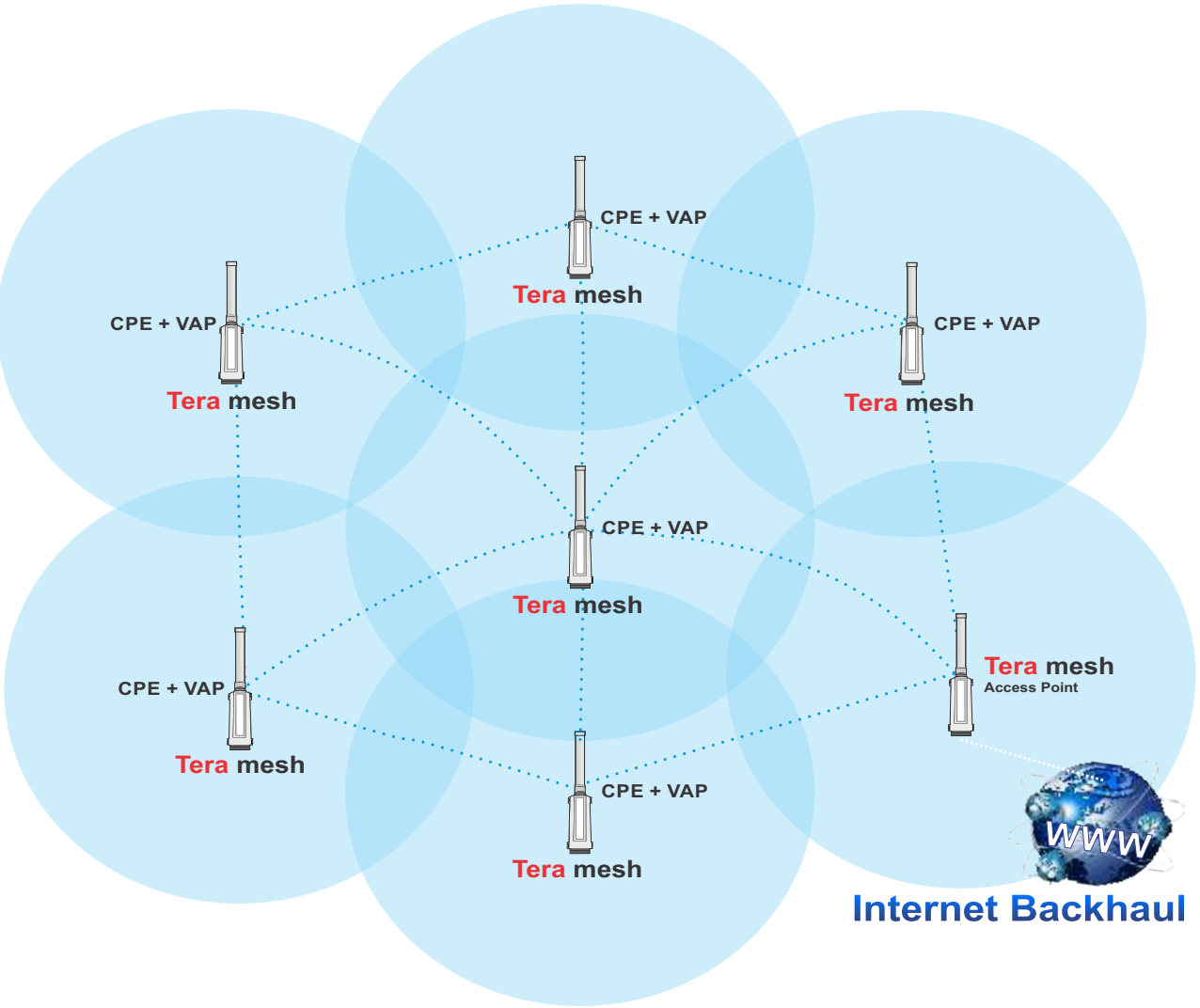
Advanced networking features include VLAN Tagging, Firewall, NAT,QoS and bandwidth management. The advanced routing offers operating modes of Gateway / BGP & RIP2. PPTP, L2TP, PPPoE Server / Client & Static IP routing options.

Unique features like DHCP forwarding for fast Roaming, Authentication via captive portal, Integrated HotSpot Clients such as Sputnik / Chilli Spots/ Hotspot System, OSPF & STP Protocols and advanced QoS make Power mesh one of the best mesh solutions in the world.

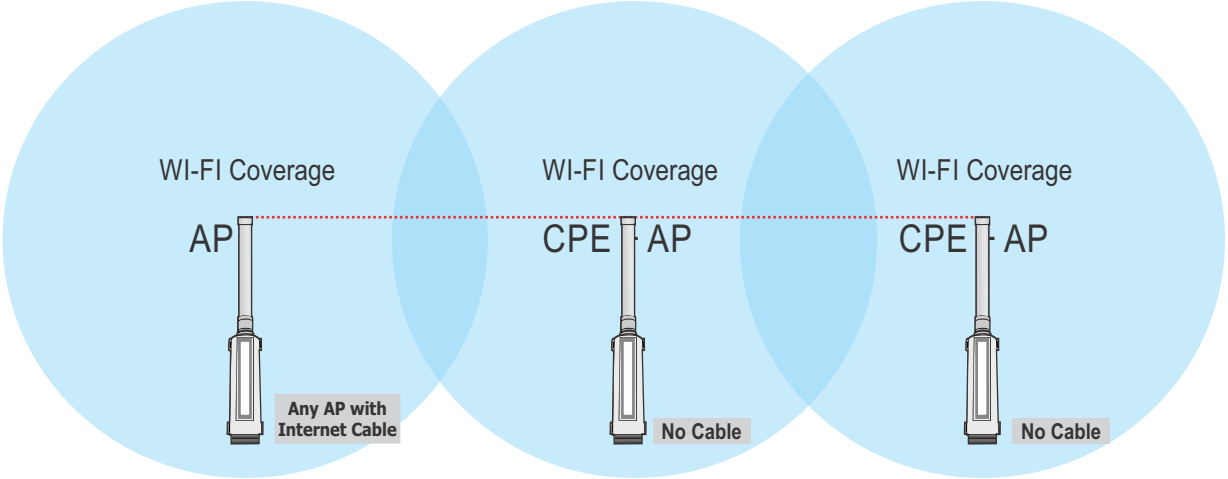


Mesh Applications Diagram

Wi-Fi Mesh Network



Series Mesh Repeater / Range Extender



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Point to Multi-Point

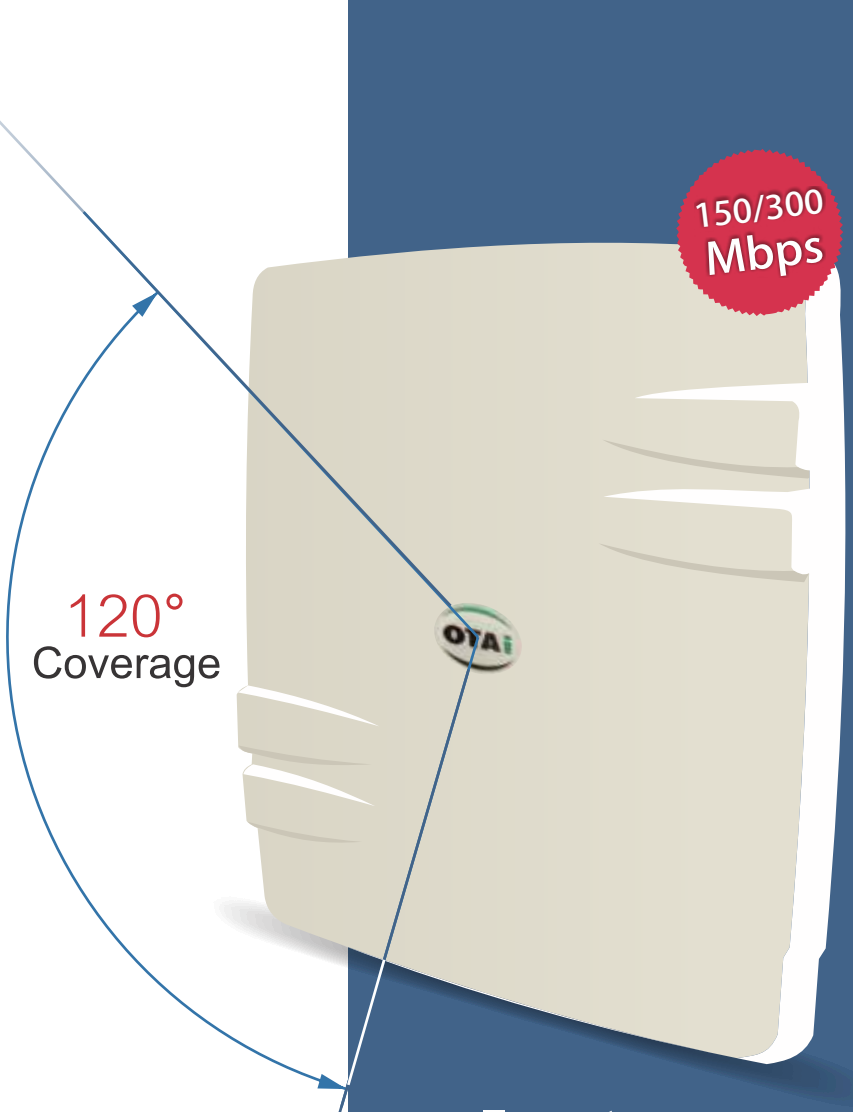
Long Range 120°

Wide Angle Integrated Antenna.

Pluto Fisheye has wide area of application for transporting Voice, Data and Video over long distances for Outdoor surveillance projects, Oilfields, Mines, Shipping Ports, WISP, Education Campus, Construction Sites, etc.

Features

- Wide angle integrated panel antenna
- High TX power (26dBm)
- OFDM MIMO, MESH Ready
- OSLR & Static Routing
- Full QoS With Traffic Shapping
- 256bit Ultra Secure Encryption
- Point to Multi Point
- GUI, Telnet, SSH
- Watchdog Timer
- Built-in HotSpot Clients
  (Sputnik / Chilli Spots / HotSpot System)
  Plus PPPoE Server / Client
- PoE Ready, 3af PoE (Optional)
- Redundant Data Port (Optional)
- 3af PoE Out Port (Optional)



pluto Fisheye

Antenna

300Mbps : 15dBi Dual Polarized.

Point to Multi-Point

Long Range 360° Sector Antenna with Integrated Radio

BTS mini can be used as low cost base station to connect approximately 32 or more client devices. The device can be effectively used for construction sites / Oil Feilds / Video Surveillance / WISP's etc.

Professional Sector Antenna

- Premium Quality 90/120° Integrated Antenna.
- Special outdoor weatherproof enclosure.
- Heavy-duty mounting elements with 15 degrees downtilt.
- Easy elevation and tilt adjustment.
- Light Weight.

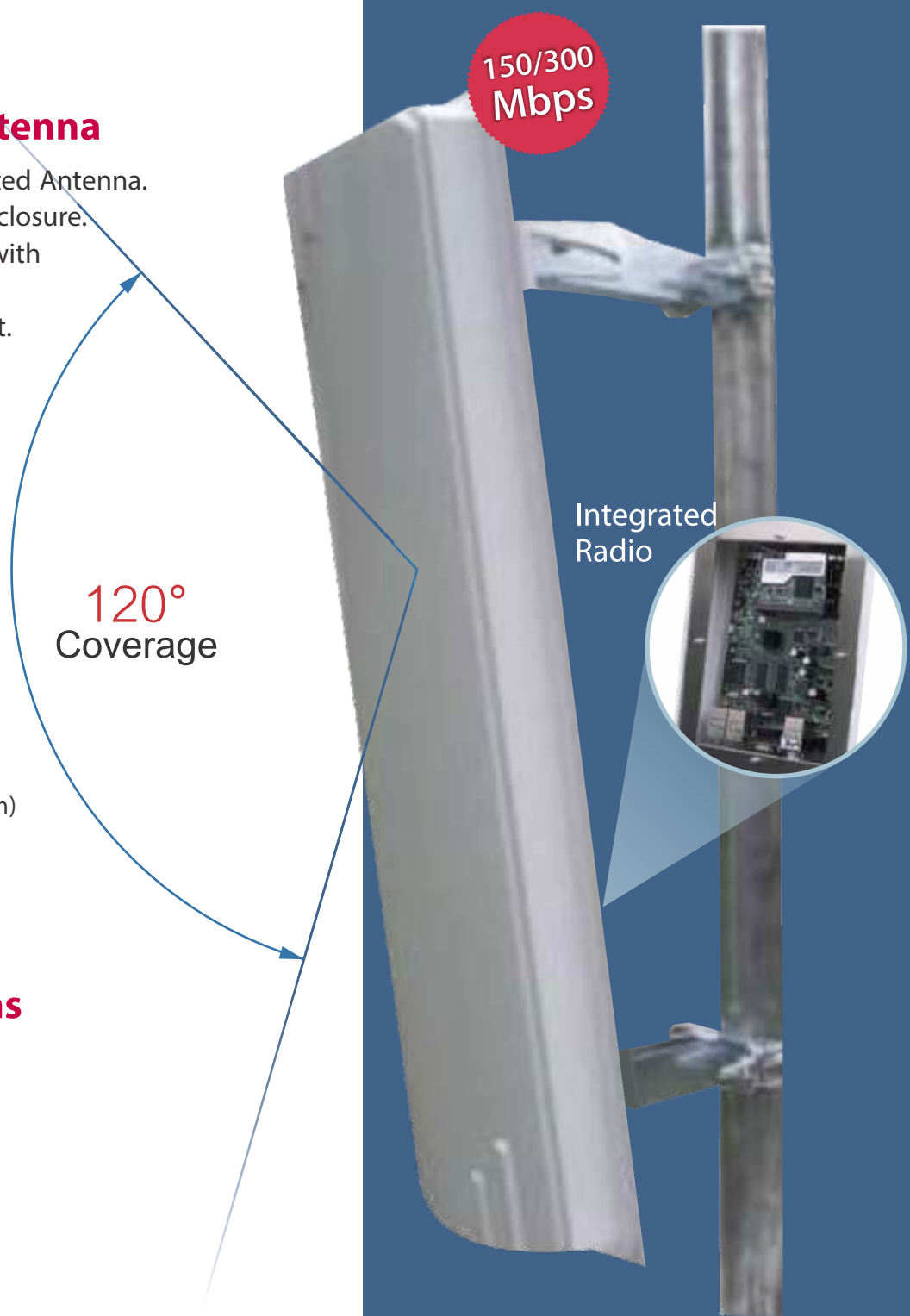
+

Enterprise Radio

- High TX power.
- Enterprise operating system
- OFDM MIMO, Mesh ready.
- Full QoS with traffic shaping.
- 256bit ultra secure encryption.
- Built in HotSpot clients (Sputnik / Chilli Spots / HotSpot System) PPPoE server / Client.
- PoE (Power Over Ethernet).

Sector Antenna Options

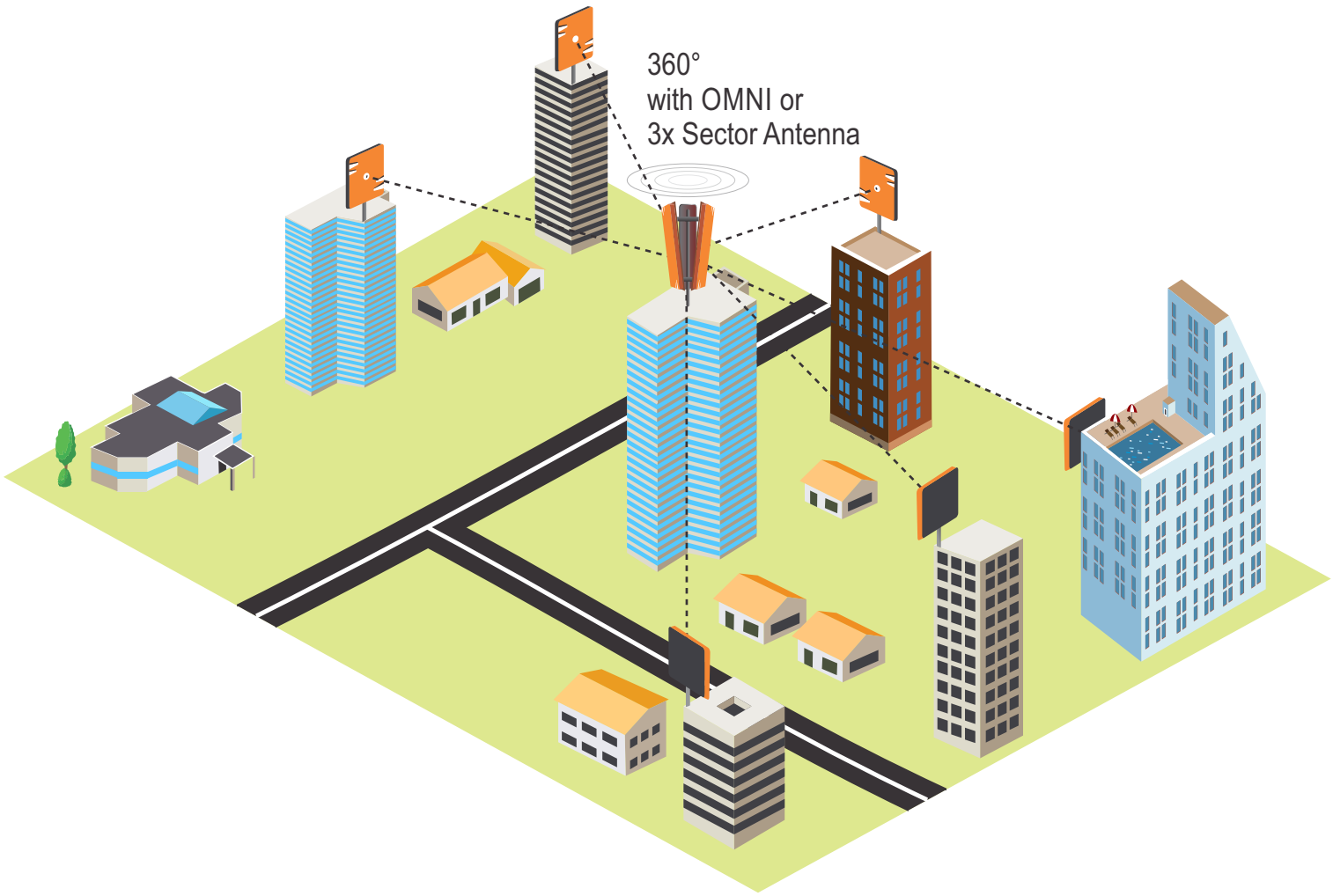
60°, 90°, 120°



Point to Multi-Point Applications
Diagram

Point to Multipoint Point Link / Mini BTS & CPE

Pluto can be used as low cost base station (AP Mode) with the help of omni antenna or directional wide angle sector antenna and CPE node with its integrated high gain antenna. Up to 32 wireless CPE can be easily connected to MINI BTS which makes it the ideal choice for wireless surveillance applications and low density WISP applications. High transmission power and quality integrated high gain antenna allows very strong Point to Multipoint Network for minimum 5 KM Radius.



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