TECHNOXEN
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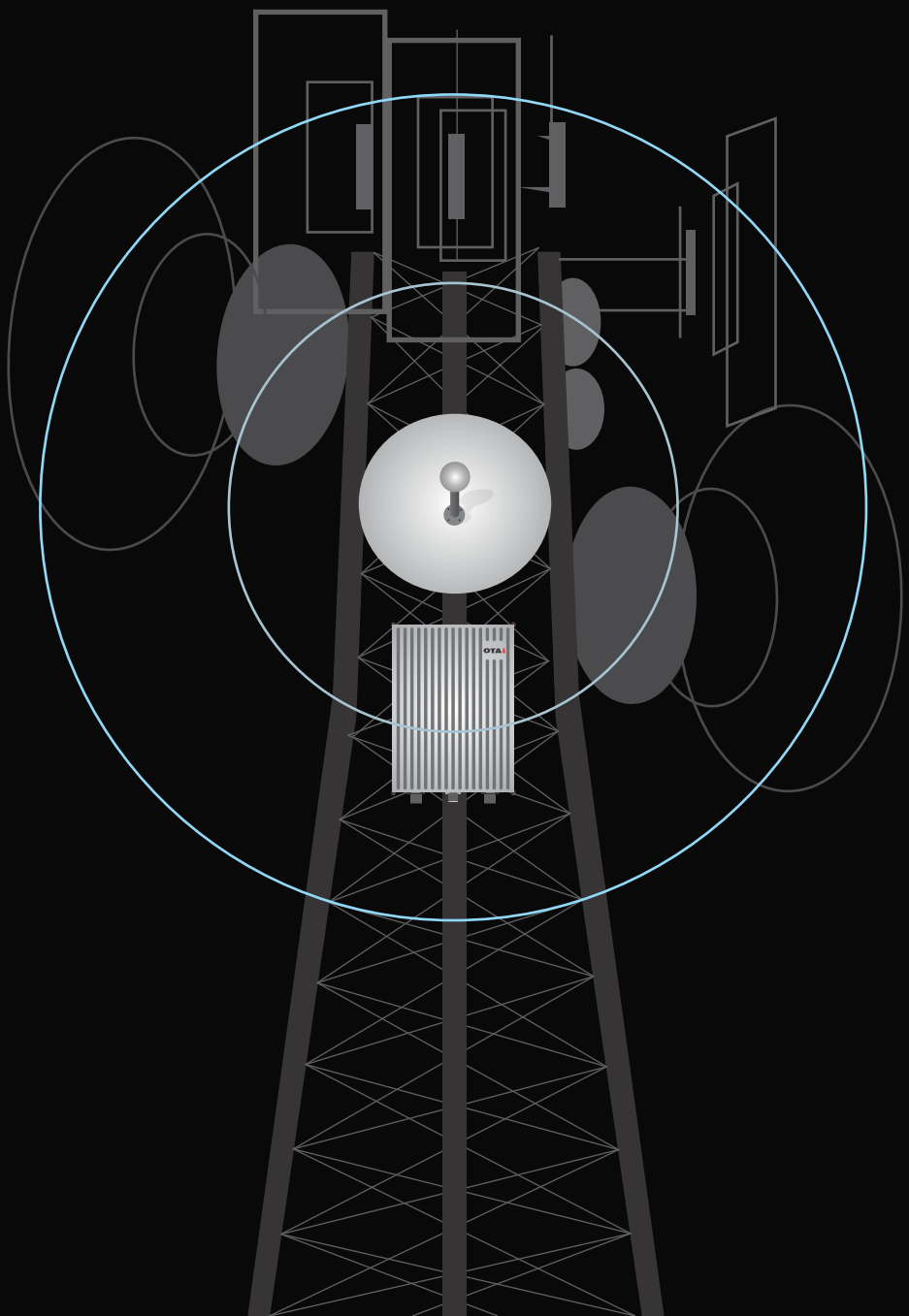
Outdoor

Enterprise Wireless Connectivity



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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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Warehouse Wi-Fi Solution

68° Wide Angle Integrated Antenna.

The perfect combination of enterprise grade mesh OS along with premium quality high gain antenna and robust IP67 enclosure makes Pluto the first choice for clients who deserve unparalleled speed, and seamless wireless coverage in warehouses.

High reliability, low latency and seamless hand-over of voice, HD-quality video and other real-time applications across long-distances.

pluto AP150

Features

- STP protocol for Seamless Roaming.
- High TX Power.
- Industrial Grade Hardware.
- OFDM MIMO Technology.
- VLAN Tagging.
- PoE Ready.
- PoE Out option for Cascading another Pluto AP150 / IP camera.
- Dust Proof Enclosure.
- 256bit Ultra Secure Encryption.
- Full QoS With Traffic Shaping.
- GUI, Telnet, SSH.
- Watchdog Timer.

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Professional Outdoor CPE (Station) upto 20Kms

A high-performance Customer Premises Equipment (CPE) designed specially for Point to Multi-Point outdoor applications where wired connectivity is impractical or unavailable.

pluto Station

Features

- STP protocol for Seamless Roaming.
- High TX Power.
- Industrial Grade Hardware.
- OFDM MIMO Technology.
- VLAN Tagging.
- PoE Ready.
- PoE Out option for Cascading another Pluto AP150 / IP camera.
- Dust Proof Enclosure.
- 256bit Ultra Secure Encryption.
- Full QoS With Traffic Shaping.
- GUI, Telnet, SSH.
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Enterprise Outdoor Access Point upto 20Kms

Pluto power has a wide area of applications for transporting Voice, Data & Video over long distances.

Integrated Antenna Options (5GHz)

Single Polarized, 150Mbps : 16 / 19 / 21 / 23dBi
Dual Polarized, 300Mbps : 16 / 18 / 21 dBi

Best Suitable For

- ISP / Operators
- Governments
- Defense
- Enterprise Grade

pluto Power

Features

- STP protocol for Seamless Roaming.
- High TX Power.
- Industrial Grade Hardware.
- OFDM MIMO Technology.
- VLAN Tagging.
- PoE Ready.
- PoE Out option for Cascading another Pluto AP150 / IP camera.
- Dust Proof Enclosure.
- 256bit Ultra Secure Encryption.
- Full QoS With Traffic Shaping.
- GUI, Telnet, SSH.
- Watchdog Timer.

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Outdoor Video Surveillance
Redefined

Pluto vision is a revolutionary product designed to address the increasing demand for outdoor video surveillance requirements. A one-stop solution eliminates multiple network components and simplifies outdoor deployments of surveillance cameras, which makes the clients project extremely cost effective.

upto
3 PoE Out Ports
for IP camera

pluto Vision

Choice of PoE out ports

- Passive PoE (12-48V) (60W)
- 3af PoE with detection (15.4W)
- 3at PoE with detection (24.0W)
- PoE+ for PTZ IP camera (60.0W)

Key Features

- High TX Power (26dBm)
- Direct DC Power (12-48 V) (optional)
- Integrated Solar Powered (optional)

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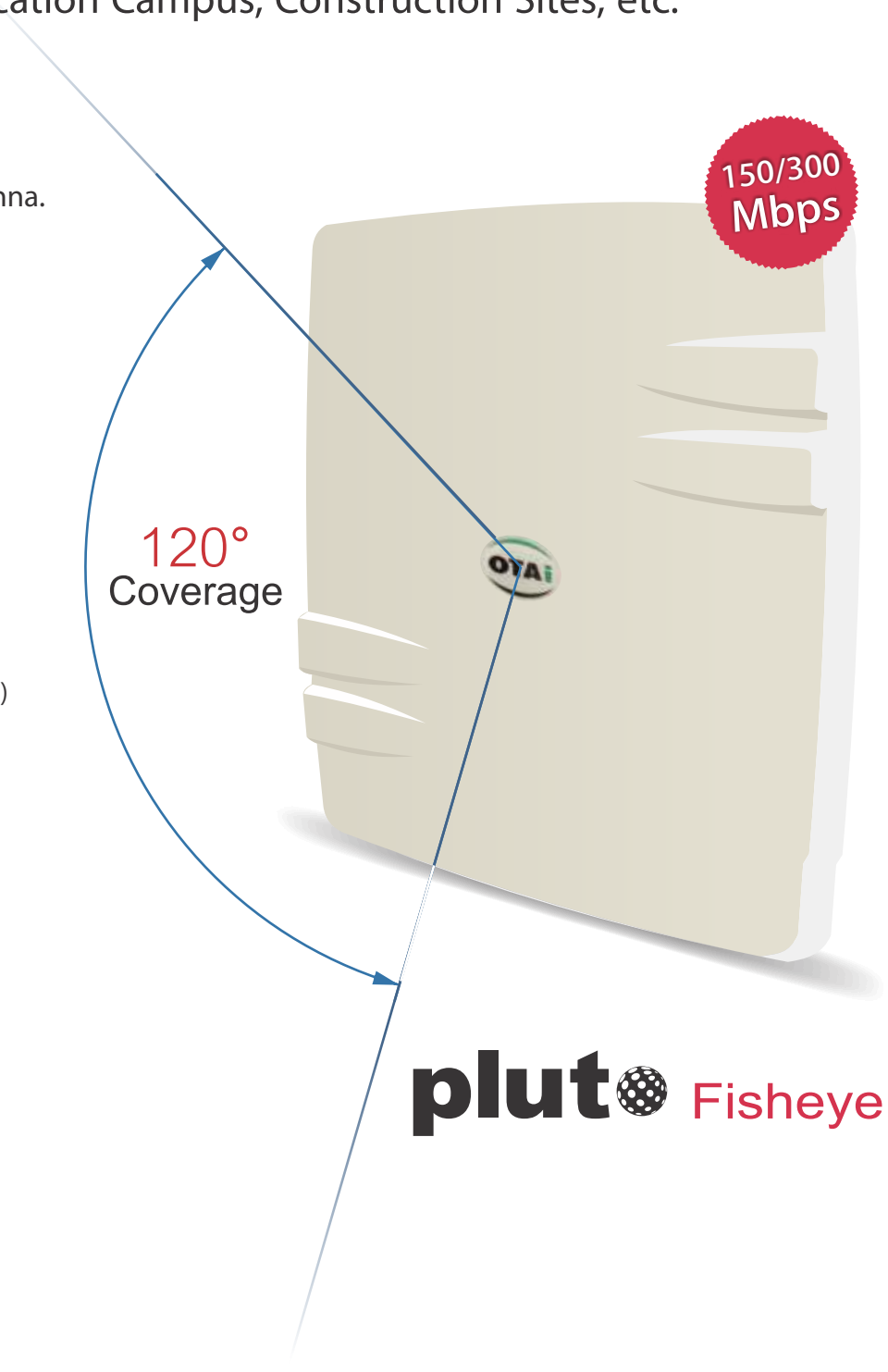
Point to Multi-Point

Long Range 120° Wide Angle Integrated Antenna.

Pluto Fisheye has a wide area of applications for transporting Voice, Data & 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 Shaping.
- 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).



Antenna

300Mbps : 15dBi Dual Polarized.

pluto Fisheye

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Dual Radio Solution

Radio 1 - 5Ghz Radio 2 - 2.4/5Ghz

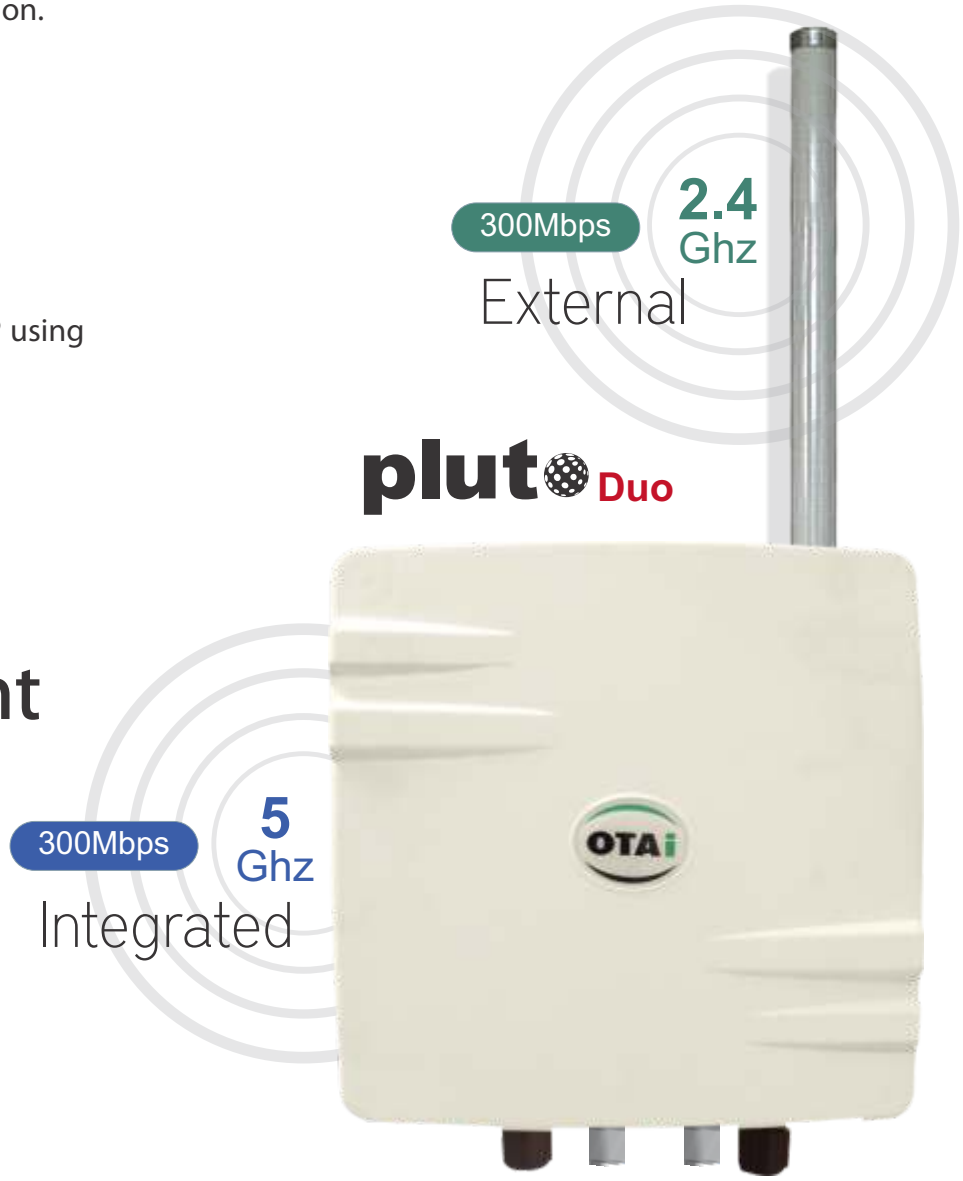
Pluto Duo is an enterprise wireless device designed to offer Dual Band Dual Concurrent RF connectivity for low & medium traffic and long distance Point to Point and Point to Multi-Point applications for enterprise users and operators.

Key Features

- STP enabled for Seamless Integration.
- PoE cascading.
- 12-24V Passive PoE.
- 3af complied PoE (optional).

Applications

- P-P / Backhaul on port-1 and P-MP using OMNI or Sector Antenna.
- 2 x P-P Link.



Dual Band Dual Concurrent Radio

Frequency Options

Can be customized as per requirements on both ports.

- 2.4-2.8 Ghz
- 2.3-2.7 Ghz
- 3.3-3.8 Ghz
- 5.1-5.8 Ghz
- 4.9-6.1 Ghz
- 5.9-6.4 GHz

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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 Fields / Video Surveillance / WISP's.

Professional Sector Antenna

120° x 3 = 360°

- 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°

Frequency Options

- 2.4-2.8 Ghz
- 2.3-2.7 Ghz
- 3.3-3.8 Ghz
- 5.1-5.8 Ghz
- 4.9-6.1 Ghz
- 5.9-6.4 GHz

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Backhaul Connectivity for High Traffic Applications

Pluto max is the best choice for backhaul connectivity upto 20 km. Best Link Performance upto 10 km.

Features

- High Gain Integrated Antenna with choice of frequency (2.19-2.49, 2.4-2.485, 3.3-3.8, 4.9-6.1, 5.1-5.8 & 5.9-6.4 GHz).
- 3af Complied Gigabit PoE.
- High TCP IP Throughput upto 200Mbps.
- Redundant Gig Data Port (optional).
- Lowest Latency.

pluto Max

Integrated Antenna Options (5GHz) :

Single Polarized : 16 / 19 / 21 / 23dBi.

Dual Polarized : 16 / 18 / 21dBi.

Best Suitable For

- ISP / Operators
- Governments
- Defense
- Enterprise Grade

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Multi Band Connectivity with Super Channel

Long Distance 40km
Multi-Port Multi-Band Radio

Applications

- Multi Band with Super Channel (2.19-2.49, 2.4-2.485, 3.3-3.8, 4.9-6.1, 5.1-5.8).
- High TX Power.
- 12-24V PoE / 48V PoE.
- Integrated Surge Protector.
- Redundant DATA Port - Gigabit (Optional).

Features

- Industry's Lowest Latency.
- TX Power 28 ±1 dBm.
- ODFM / 2x2 MIMO.
- VLAN / Hotspot Client.
- Redundant Data Port / PoE Out Port.
- Maximum Link Distance upto 40km.
- Best Link Performance upto 20km.

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Multi Band Connectivity with Super Channel

Long Distance 100km
Multi-Port Multi-Band Radio

Applications

- Multi Band with Super Channel
  (2.19-2.49, 2.4-2.485, 3.3-3.8, 4.9-6.1, 5.1-5.8).
- High TX Power.
- 12-24V PoE / 48V PoE.
- Integrated Surge Protector.
- Redundant DATA Port - Gigabit (Optional).

Features

- Industry's Lowest Latency.
- TX Power 28 ±1 dBm.
- ODFM / 2x2 MIMO.
- VLAN / Hotspot Client.
- Redundant Data Port / PoE Out Port.
- Maximum Link Distance upto 100km.
- Best Link Performance upto 60km.

OTAi AirMax

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