

NEW

No More Sector Antenna for **Wide Angle** Coverage

plut  **fisheye**
Point to MultiPoint Enterprise Wireless Solution

Wide Angle Panel Antenna
Hplane = 120°, Vplane = 10°



HIGH SPEED
Upto **300** Mbps

- Integrated DUAL Polarized Wide Angle MIMO Antenna
- 26dBm TX Power
- PoE Ready, 3af PoE (Optional)
- Redundant Data Port (Optional)
- 3af PoE Out Port (Optional)

Economy Series

Pluto fisheye is a Enterprise grade wireless device specially designed with integrated WIDE-ANGLE panel antenna to offer wide area of coverage for point to multipoint applications without the use of expensive sector antenna.

Few country's telecom regulatory authorities does not permit use of Omni antenna and sector antenna. In such situations it becomes very expensive and difficult to address requirement of P-MP applications where multiple CPE are required to be installed with central base station. Pluto fisheye can actually act like a fully functional base stations with integrated panel antenna to offer wide angle coverage of Hplane (120°) Vplane (10°).

Pluto fisheye is an extension of Pluto power family and offers all features and capabilities of Pluto power.

Carrier grade OS with 30% reduced overheads and rate set MIMO algo rhythm ensures high link stability, low latency wireless network with very high through put even at long distances.

Pluto fisheye is designed for low & medium density Point to Multi Point Networks that require high bandwidth, huge data traffic including HD-quality video and other real-time applications.

Pluto fisheye is ideal for deployment in metropolitan and industrial areas likes (oilfields, mines, shipping ports, WISP, Education Campus etc..)

Flexible, high-capacity architecture

Pluto fisheye offers Wide Choice of integrated antenna for flexible outdoor wireless deployments using the 2.199 – 2.499 GHz or 4.9GHz- 6.1Ghz frequency band including 2.4GHz and 5.8GHz ISM band. The device can be configured as AP /Client / Client Bridge / Mesh Repeater for WiFi Applications or as a point-to-point, point-to-multipoint and full mesh backhaul.

Intelligent wireless mesh routing

Integrated OTAi mesh OS, adaptive wireless OSLRD / STATIC routing technology supported by spanning tree protocol automatically optimizes traffic routes between wireless mesh routers and creates a truly adaptive mesh infrastructure. The mesh infrastructure adjusts dynamically to traffic levels and RF signal strength to ensure high availability and optimal performance.

Seamless mobility

Advanced algorithm of quick RF eouting and bridging capabilities of OTAi software allows Wi-Fi clients to move between wireless mesh routers in very less time (with in Threshold time) maintaining a seamless connection for latency-sensitive applications, such as video and voice.

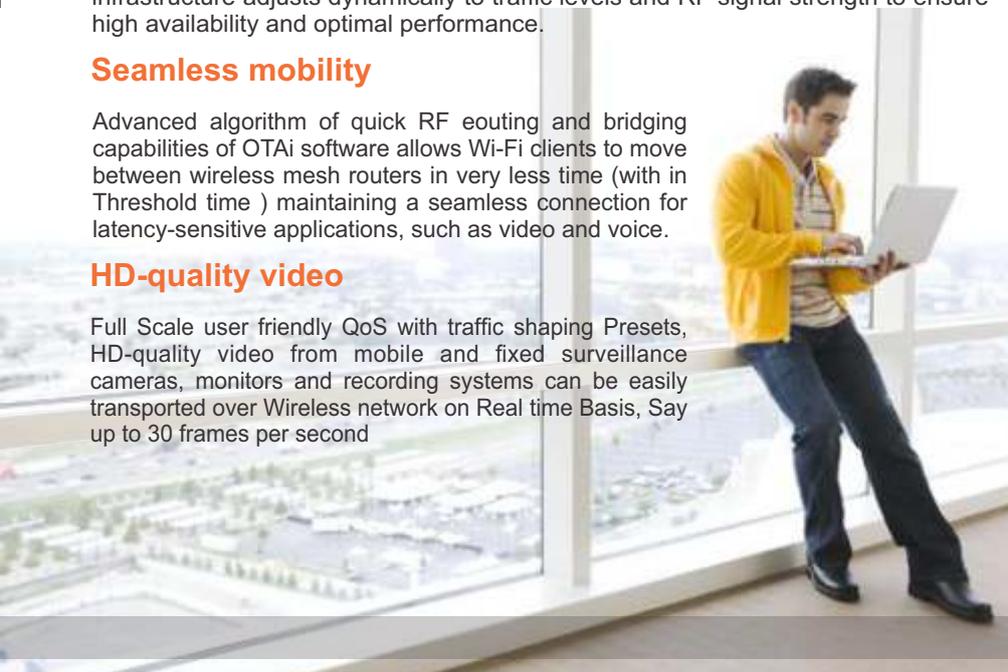
HD-quality video

Full Scale user friendly QoS with traffic shaping Presets, HD-quality video from mobile and fixed surveillance cameras, monitors and recording systems can be easily transported over Wireless network on Real time Basis, Say up to 30 frames per second



Key Features

- Wide Angle Integrated Panel Antenna
- OFDM MIMO, MESH Ready
- OSLR & Static Routing
- Full QoS With Traffic Shapping
- 256bit Ultra Secure Encryption
- Point to Point & Point to Multi Point
- GUI, Telnet, SSH
- Watchdog Timer
- Built-in HotSpot Clients (Sputnik / Chilli Spots / HotSpot System) Plus PPPoE Server / Client



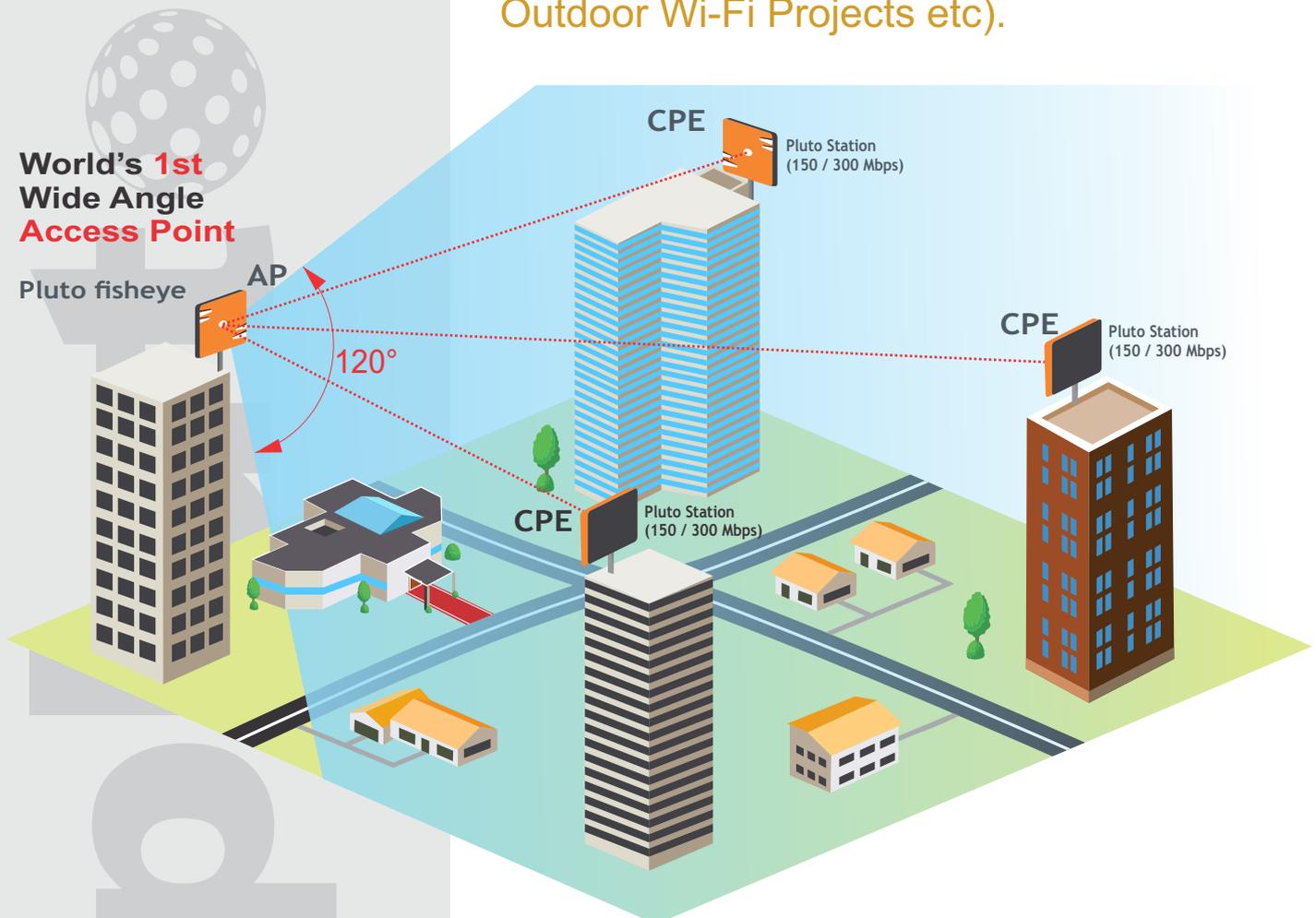
Advanced Network Features

Other Advanced Network features Include VLAN Tagging, Firewall, NAT, Qos and Bandwidth management. The advance routing offers operating modes like Gateway / BGP / RIP2 & OSLR. (PPTP, L2TP, PPPoE) Server / Client & STATIC IP routing options.

Unique DHCP for warding option for fast Roaming, Authentication via captive portal, Integrated HotSpot Clients Likes Sputnik / Chilli Spots / HOTSPOT SYSTEM, (-96) RX Sensitive, STP protocols put the Pluto on the TOP of the index when compared with similar products available In market.

APPLICATIONS

Pluto fisheye has Wide Area of Application for transporting Voice, Data and Video over long distances with point to multipoint applications likes oilfields, mines, shipping ports, WISP, Education Campus, Construction Sites, Outdoor Wi-Fi Projects etc).



Specifications



Model	Pluto fisheye
Chipset	Atheros AR7240 (400 MHz) Network Processor
Flash	8M
SDRAM	32M
Frequency Band	• 2.400 GHz (ISM BAND) • 5.800 GHz (ISM BAND) • 2.199 GHz - 2.499GHz (Extended Frequency Band) • 4.900 GHz -6.100 GHz (Extended Frequency Band)
Tx Power	26dBm ± 2 , Adjustable.

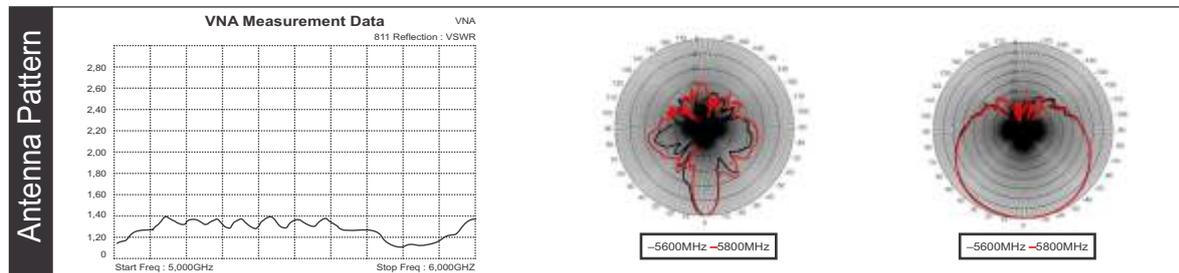
Operation Mode	AP, Client, Client Bridge, WDS Station , WDS AP , MESH Repeater
Standards	802.11a/n or b/g/n access point for Client access or CPE 802.11a/n or b/g/n mesh router for backhaul Ethernet: IEEE 802.3/u (10/100BaseT)
Data Modulation	BPSK, QPSK, CCK & QAM 64 (OFDM),
Data Rate	A)1T 1R , 150 Mbps Max B) 2T 2R , 300 Mbps Max (Radios implement 2x2 MIMO with two spatial streams, providing up to 300 Mbps data rate per radio. Dual receiver chain maximal ratio combining (MRC) for improved receiver performance)
802.11n (HT) High-Throughput	HT 20/40

Interfaces	
Data Optional	1 x 10/100BaseT Ethernet Port Auto MDI/MDIX, Additional 1 x 10/100 Base T Ethernet Port
Power (PoE) Standard Optional	12V - 24V Passive PoE , RJ 45 Power Pins : 4,5(+ve) & 7,8 (-ve) 80.2 3af / at Complied
Power	14W (Max consumption)
Watchdog Timer	Software / Hardware / Temperature

Router Specifications	Basic Network Platform TCP/IP protocol suite
Networking	NAT/PAT, DHCP server, relay, client, VLANs Support for HTTP, HTTPS, SSH, Telnet, SNMP V2 (Read Only Excess), NTP Server & Client
Security	64/128/ 256 bit WEP, WPA, WPA2,RADIUS and 802.1x encryption Mode For Wireless Network MAC and IP address filtering, Access control list
Band Width Management	Per IP/protocol/subnet/port, CBQ, RED, SFQ, byte limited queue, packet limited queue
Tunnels	PPTP, EoIP (Ethernet over IP) Multicasting support (beta available)
Bridging	Spanning tree protocol, multiple bridge interfaces, bridge firewall
QoS	Full Scale QOS with traffic shaping and user friendly Presets .
DNS Client / Server	Name resolving for local use, Dynamic DNS Client
Multiple SSID	Offers Virtual AP support with multiple SSID & individual encryption and IP address/ DHCP
HotSpot	Built-in HotSpot Clients (Sputnik / Chilli Spots / HotSpot System) Plus PPPoE Server / Client

Operating Temperature	(-40°C) - (70°C)
Storage	(-20)% - (90)%
Humidity	5%~98% non-condensing
Weather Rating	IP 67
Wind Survivability	Up to 165 mph
Mounting	Mast /Pole mounting (Aluminum , Light Weight, non-corrosive)
Wireless Users	
Max	254
Recommended	30-40

Configurations are subject to change without notice.



Model Options And Order Codes							
Order Code	Frequency	Antenna type				Enclosure Size	Max Data Rate
		Gain	Polarisation	Hplane	Vplane		
PFE5016DPS	5.1-5.9	16	DP-Panel	120	10	385x385x80mm	300Mbps
PFE2414DPS	2.4-2.5	14	DP-Panel	90	18	385x385x80mm	300Mbps

