OTAi
always innovative

Point to Point
Wireless Solution
for Enterprise and Carriers

- Multi Band with Super Channel
  - 2.19-2.49GHz
  - 3.35-3.75GHz
  - 4.90-6.10GHz
  - 5.90-6.40GHz
- High TX Power (upto 28dBm)
- 3af GIG PoE
- Integrated Gigabit Surge Protector
- Redundant DATA Port - Gigabit (Optional)

OTAi AirMax
Long Distance Outdoor Multi Band Radio

802.11 abgn

Key Features

- Upto 150Mbps net aggregate TCP/IP Throughput*
- Long Range : 100 Kms*
- OFDM MIMO, MESH Ready
- OSLR & STATIC Routing
- Full QoS with Traffic Shapping
- 256 bit Ultra Secure Encryption
- Point to Point & Any Point to Any Point
- GUI, Telnet, SSH
- Watchdog Timer
- Built-in HotSpot Client (Sputnik / Chilli Spots / HotSpot System) PPPoE Server / Client

OTAi AirMax

Long Distance Outdoor Multi Band Radio

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Edge

OTAi AirMax is designed for high traffic and long distance Point to Point and Point to Multi-Point applications for Enterprise users and Operators. The device offers very stable wireless connectivity even at long distance extreme outdoor conditions

OTAi AirMax is a multi-band device with selection of wide frequency range from 2.19-6.4GHz including ISM band of 2.4GHz and 5.8GHz, 3.3GHz and 6.4GHz. The device also covers 4.9GHz public safety band.

OTAi AirMax can be used as OMNI BTS or directional BTS in conjunction with MIMO Omni antenna or MIMO sector antenna for Point to Multi-Point applications.

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

OTAi AirMax has very effective applications when medium and high density Point to Multi-Point networks are required to be deployed. VLAN Tagging / Jumbo Packetizing and advancedNAT features ensure high bandwidth for traffic including HD-quality video and other real-time applications.

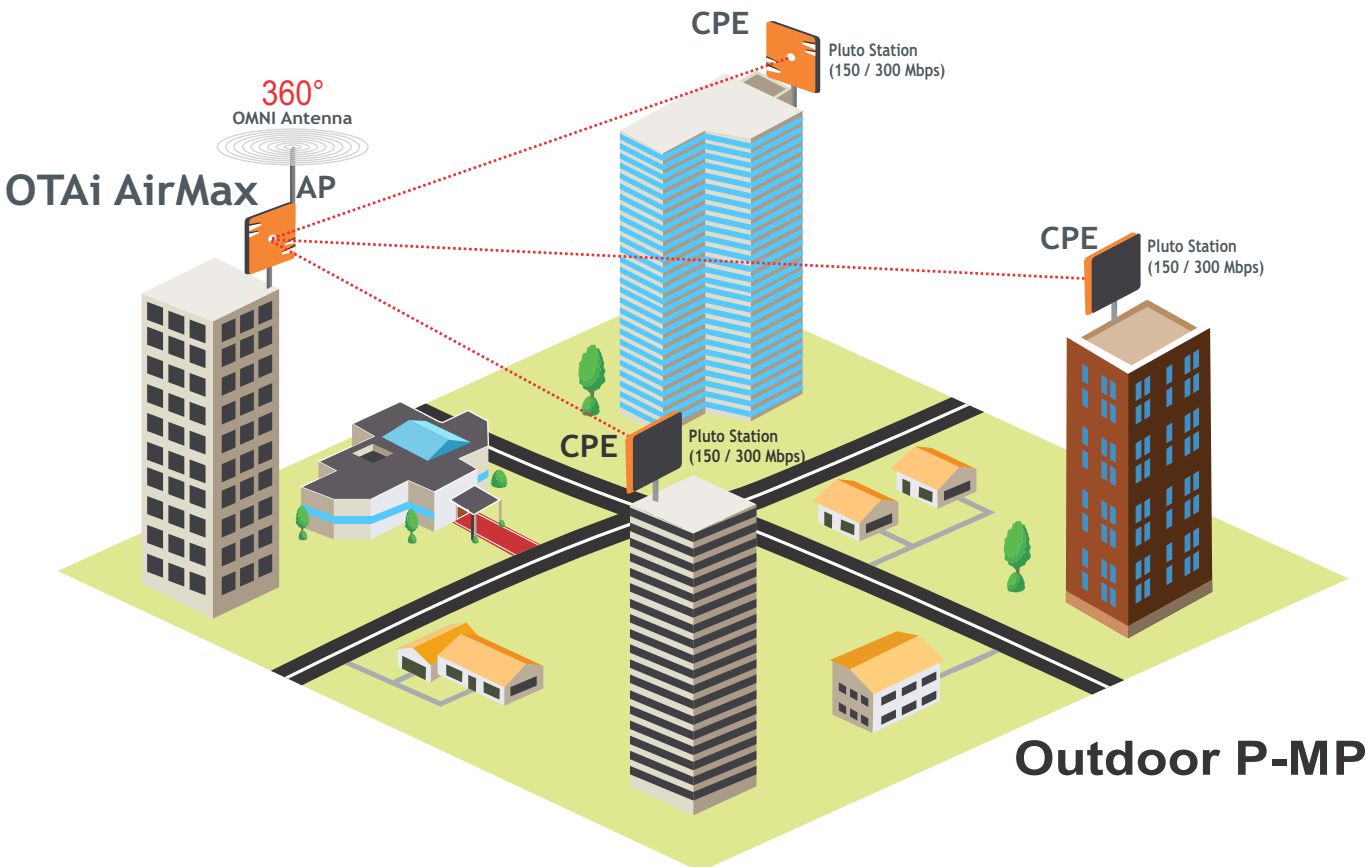
OTAi AirMax is ideal for deployment in metropolitan and industrial area likes (oilfields, mines, shipping ports, WISP, Education Campus etc..)

Flexible, high-capacity architecture

OTAi AirMax offers different kind of wireless applications using suitable antenna. Multi-Band RF options give wide choice of selection of operating frequencies from 2.19-2.49GHz, 3.35-3.75GHz, 4.90-6.10GHz and 5.90-6.40GHz. The device can be configured as AP / Client / Client bridge and Mesh repeater.

Intelligent wireless mesh routing

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



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OTAi AirMax has Wide Area of Applications for Transporting VOICE, DATA and VIDEO Over Long Distances Point to Point and Point to Multi-Point Applications.

Edge

Seamless mobility

Advanced algorithm of quick RF routing 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.

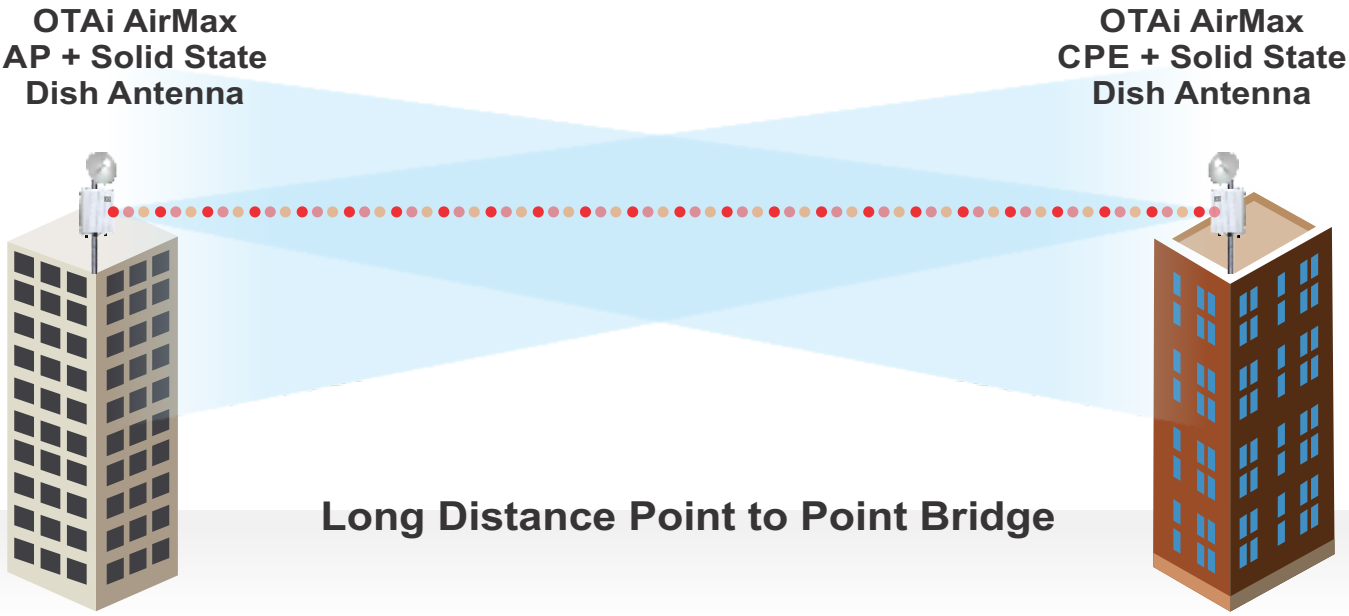
HD-quality video

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

Advanced Network Features

Other advanced network features include VLAN tagging, firewall, NAT, QoS and bandwidth management. The advanced routing offers operating modes like gateway/BGP/RIP2 & OSLR. (PPTP, L2TP) PPPoE server / client & STATIC IP routing options.

Unique DHCP forwarding option for fast roaming, authentication via captive portal, integrated HotSpot clients like sputnik/Chilli Spots / HotSpot system, (-96) RX sensitive, STP protocols put the OTAi AirMax on the top of the index when compared with similar products available in market.



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OTAi AirMax is a multi-band device with selection of wide frequency range from 2.19-2.49 and 4.9-6.1GHz including ISM band of 2.4GHz and 5.8GHz. The device also covers 4.9GHz public safety band

Specifications

Model	OTAi AirMax
Chipset	Atheros AR7161 (680 MHz) Network Processor
Flash	8/16 Mb
SDRAM	64Mb
Frequency Band	• 2.400 & 5.800 GHz (ISM BAND) • 2.19-2.49GHz / 3.35-3.75GHz (Extended Frequency Band) 4.90-6.10GHz / 5.90-6.40GHz (Extended Frequency Band)
Tx Power Adjustable.	20 dbm in case of a/b/g/n 28 dbm in case of a/n 28 dbm in case of b/g/n

Operation Mode	AP, Client, Client Bridge, WDS Station , WDS AP , MESH Repeater
Standards	802.11a/n or b/g/n or a/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, DSSS)
Data Rate	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 (150 Mbps) / HT 40 (300 Mbps)

Interfaces	
Data Optional	1 x 10/100/1000 Base-T Ethernet Port Auto MDI/MDIX, Additional 1 x 10/100/1000 Base T Gigabit Port
Power (PoE) Standard	24V - 48V Passive PoE ,80.2 3af PoE (48V-56V) IEEE 802.3af/at injectors (both end span and mid span). Passive Injectors (24V-48V) (mid span)
RF	2x N-Female connectors for choice of antenna using RF male cable assembly
Power	20W (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 - (80°)C
Storage	(-20)% - (90)%
Humidity	(5)%-(95)% 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

MIMO N Technology

RADIUS READY

PoE (Power Over Ethernet) Power + Data

UV RESISTANT

FROST RESISTANT

WATER PROOF

DESIGNED FOR WISP STATION / REPEATER

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