



JABAISP Multi-band Base Station 500 Series

Four radios and multiple operation modes and frequencies in one!

JABAISP Multi-band Base Station 500 series is a Outdoor Radio Access Point with four High Power wireless ports at 2.4/4.9/5GHz, 802.11a/b/g standard-compliant and future WiMAX and 802.11n, JABAISP Multi-band Base Station 500 series is the ideal solution for Wireless ISP, large Mesh networks, long range HotSpot, Public Safety Networks and Multipoint applications needing high-performance outdoor Wi-Fi and WiMAX equipments in a fast-growing market and at low cost.



JABAISP Multi-band Base Station 500 series can have four 90 deg sector panel antenna or three 120 deg sector panel antenna and one backhaul link, the JABAISP Multi-band Base Station 500 series delivers Internet and VoIP service to your laptop, Wi-Fi phone or network clients - LAN at large distances, you can use this Base Station to provide NLoS - No Line of Sight and LoS - Line of Sight applications, high data rates and superior throughput for data intensive that allow multiple sites to share a single, high-speed connection to the Internet or VoIP telephony networks. The most feature-rich firmware and OS software allow you to apply most advanced RF and networks functions as advanced IP Routing, QoS - quality of service, Firewall, DHCP Server, NAT, Bandwidth Shaping, HotSpot and other technologies to create a smart and easy controllable network

JABAISP Multi-band Base Station 500 series can work as an access point, WDS, Client and repeater, or as a combination of these. Each radio has separately adjustable power output, with its own frequency and channel, SSID and encryption settings, that allow you to cover long distances in Multipoint applications up to 20 miles or 32 Km. All of these characteristics transform this Base Station into the most powerful, complete and advanced of the world.

With prominent 216Mbps of capacity (54 Mbps each radio) data transfer rate in regular mode or 432Mbps (108Mbps each radio) data transfer rate on turbo mode and up to 600mW output power, you can forget about the word "interference". The JABAISP Multi-band Base Station 500 series is the next generation of wireless equipments. **Step together in the future with us!**

Features

- ▶ Intel XScale technology CPU power for high-speed connection.
- ▶ Four Radios and Multiple Frequency in one (Choose the Frequency You Need!).
- ▶ Work as Access Point, WDS, Client and Repeater in Bridge or Router mode.
- ▶ Ultra High power RF Ports up to 600mW, for long distance.
- ▶ Long Distance parameters and Output power regulation (selected by software).
- ▶ Perfect design and characteristics for Industrial outdoor use (waterproof).
- ▶ Complete compatibility with any IEEE network and future Wimax
- ▶ Advanced Network functions (IP Routing, Hotspot, Firewall, DHCP, NAT, etc)
- ▶ Bandwidth Management and QoS
- ▶ Free NMS - Network Management System
- ▶ Carrier Class Radio for extreme environment -60 to 230C

Applications:

Require Grid, Solid or Sectorial antennas for Remotes and Central Base Station according with Configuration Point to Point or Point to Multipoint



Specifications:

HARDWARE

Processor	Intel® IXP425 XScale® 533 MHz	M	64 MB
Memory Flash	16 MB	Ethernet Port	Two Ethernet 10/100 Mbps
Console Port	One Serial DB9 standard	Console	One Serial DB9 standard
RF Port	Four RF Mini-PCI modules	RF Connector	Four N-Female type
Power Connections	802.3af Power over Ethernet 9-48v DC with surge protector	Enclosure	Industrial Die-Cast Thermal Aluminum, NEMA-6 / IP-67
Weight	4.5 Lb. or 2 Kg. (Radio, Bracket and accessories)	Dimensions	8.3 x 6 x 2 in (21 x15 x 5cm.)
Mount	Pole or tower mounting brackets	Operating Temperature	Enclosure Seal -60C to 230C

SOFTWARE

RF Operational Modes

Access Point (bridge or router function)
WDS (bridge function)
Repeater (bridge function)
AP Client (bridge or router function)
Station (bridge or router function)

Advanced Wireless Features

Tx Power and Tx Rate
Antenna Selection
ACK Timeout
WMM - Wireless QoS
Mac Address Spoofing
Hide SSID and Stealth Mode
Best Channel Selection and Country Code Selection
DFS/TPC (Dynamic Frequency Selection / Transmit Power Control)
Compression, Bursting, Fast Frames
802.11h Full Support
Antenna Alignment (Site Survey / Link Quality / Signal Level)

Network Advanced Features

Transparent Bridging
Layer 2 (Mac Address) Forwarding
Layer 3 (IP Address) Forwarding
Static Routing
RIP v2
DHCP Server and Client
PPPoE Client/PPTP Client
Vlan (802.1Q) Support
Advance Statistics
Graphical User Interface
Monitor Utils (Ping and Trace Route)

Firewall - NAT

Input/Output Interface
Source IP/Subnet
Port(s)
Source Mac
Destination IP/Subnet
Protocol (ICMP, TCP, etc)
Connection State(New, Established, etc)

Security Features

Access Control List
WEP 64/128
WPA1/WPA2 with TKIP & AES ciphers

QoS - Bandwidth Management

Committed Information Rate (CIR)
Peak Information Rate (PIR)
Committed Burst Size (CBS)
Excess Burst Size (EBS)
Based in :
- Input/Output Interface
- Source IP/Subnet
- Source Port(s)
- Source Mac
- Destination IP/Subnet
- Destination Port(s)
- Destination Mac
- Protocol (FTP, ICMP, TCP, etc)
- Application (Peer to Peer, EDonkey, Kazza, IRC, etc)

Hot Spot Features

WAN, LAN, DHCP, Firewall - NAT
QoS - Bandwidth Management
Wireless Radius Client
UAM Authentication, Mac Address Authentication
Walled Garden
Advertisement Sites
Log in Page Customization
Users Info, Radius Statistics




Administration Tools

SNMP Agent
NTP Agent
HTTP Server
SSH

RF MODULES

Model	JABABS500H	JABABS500G	JABABS500AH
Frequencies	2.4GHz Band: 2400-2497MHz (*) 4.9GHz Band: 4940-4990MHz (public Safety Band) 5GHz Band: 5150-5850MHz (*) (*) programmable for different country regulations)	2.4GHz Band: 2400-2497MHz (*) (*) programmable for different country regulations)	4.9GHz Band: 4940-4990MHz (public Safety Band) 5GHz Band: 5150-5850MHz (*) (*) programmable for different country regulations)
Standard Compliance	IEEE 802.11a/b/g and Public Safety Band	IEEE 802.11b/g	IEEE 802.11a and Public Safety Band
Access Method	TDD (CSMA/CA)		
Channel Bandwidth	5, 10, 20 or 40 MHz (Selected by Software)		
Modulation technique	2.4GHz band: DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK,QPSK, 16-QAM, 64-QAM) 4.9GHz Band: OFDM (BPSK,QPSK, 16-QAM, 64-QAM) 5GHz Band: OFDM (BPSK,QPSK, 16-QAM, 64-QAM)	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK,QPSK, 16-QAM, 64-QAM)	OFDM (BPSK,QPSK, 16-QAM, 64-QAM)
Output Power	2.4GHz Band: 26dBm @6-24Mbps 23dBm @54Mbps 4.9/5GHz Band: 23dBm @6-24Mbps 20dBm @54Mbps	28dBm @6-24Mbps 26dBm @36Mbps 24dBm @54Mbps	28dBm @6-24Mbps 26dBm @36Mbps 24dBm @54Mbps
Receiving Sensitivity	2.4GHz Band: -95dBm @1Mbps -92dBm @6Mbps -74dBm @54Mbps 4.9/5GHz Band: -92dBm @6Mbps -74dBm @54Mbps	-94dBm @6Mbps -86dBm @24Mbps -74dBm @54Mbps	-94dBm @6Mbps -86dBm @24Mbps -74dBm @54Mbps
EMC Certificate	FCC Part 15/UL ETSI 300/328/CE		

Ordering Information:

	JABABS500H	JABAISP Tri-Band 2.4/4.9/5GHz 802.11a/b/g Sectoral Base Station High Power AP with 4-RF Port Radio
	JABABS500GH	JABAISP 2.4GHz 802.11b/g Sectoral Base Station Ultra High Power AP with 4-RF Port Radio 600mW
	JABABS500AH	JABAISP Dual Band 4.9/5GHz 802.11a Sectoral Base Station Ultra High Power AP with 4-RF Port Radio 600mW

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