



Wireless Carrier Class Solutions

Powered by MikroTik

www.wi-corp.com

Outdoor Base Station

OBS-31- 31A- 31X- 32A- 32AX- 33



The OBS is an ideal cost-effective outdoor Base Station wireless networking solution for ISP service companies, and corporate branches. Designed from the beginning to give carrier class type services, OBS can do long distance links in the toughest environments with outstanding stability.

It can be used as a Base Station to attend multiple clients, or as a single point-to-point link. Equipped with one Ethernet port, the OBS can connect to a hub or to a switch or an access Point without the need to install a router. This represents significant savings on hardware costs.

The OBS uses OFDM technology operating in the 5.8/ 2.4 GHz license free bands. Because OFDM can take advantage of reflected RF signals, it is now possible to connect locations you may have thought were inaccessible due to line of sight barriers.

Most features of the OBS are pre-configured and automatically adapt to the environment, making configuration and use very simple. The OBS-31 supports VLAN, transparent Bridge and comes with robust management features, such as NAT, DHCP Client, DHCP Server, IP Routing, RIP2 and SNMP. These features and its processing capacity make the OBS 31 a unique product in the outdoor wireless market.

Hardware Highlights

- 5.1/ 5.8 Ghz or 2.4 GHz OFDM
- 700 MHz- 128 RAM Processor
- Ideal for Point to Multipoint Use
- NEMA4. Engineered for reliability even in the hottest regions of the world

CCLASS Super Range Software

- Transparent MAC Layer operation
- VLAN support
- Learning bridge that supports forwarding and filtering
- AES Encryption
- IP Routing
- Spanning Tree Protocol
- Polling
- Long Distance throughput
- Super packet Aggregation
- VoIP Support
- QoS

Radio Features

- Wireless data rates of up to 54 Mbits/sec
- Full bandwidth management/ CIR/ MIR
- 30 Mbs real throughput per RF
- No FCC license required 2.4 Ghz- 5.8 GHz operation
- Support up to 70 clients
- 5.1 GHz- 5.4 GHz- 5.8 GHz Wide Band
- Radio link and antenna alignment diagnostics
- WEP hardware encryption standard
- Operating range: 20- 40- 60 Kms
- Output Power 350 Mw (OBS-31A-32A)
- Output Power 600 Mw (OBS-31X-32X)

Ethernet Features:

- 10/ 100 Dual Ethernet
- Power over Ethernet



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OBS-31-31A-31X Specifications

Firmware Features

- Routing RIP 1 / 2, OSPF v2, BGP v4 (equal cost multi-path routing, policy based routing, firewall marked packet routing)
- PPP (ISDN, PPPoE, modem pool)
- RADIUS authorization and accounting
- IP telephony
- Bridging- WDS- MESH Topologies
- Stateful Firewall and NAT
- VLAN
- DHCP
- Tunnels (PPTP (VPN), IPIP, EoIP, IPsec)
- IP traffic accounting, firewall actions logging
- Bandwidth Management (per IP / protocol / subnet / port, CBQ, RED, SFQ, byte FIFO, packet FIFO)
- Tools (ping, traceroute, bandwidth test, ping flood, telnet)
- DNS cache
- Web cache
- SNMP
- NTP (Network Time Protocol)
- Remote administration and upgrading
- LONG RANGE- HIGH THROUGHPUT FEATURES: Polling, Super packet aggregation

Radio Features

Spread spectrum method OFDM 80211 a, b, g+ wavemax nstreme
Frequency (User selectable): 2.4 Ghz – 5.3 GHz- 5.8 Ghz
Channels (User selectable) 5120- 6100 (5 Mhz Steps)
Channels (User selectable) 2412 – 2472 (Channels 1 to 13- 5 Mhz), 2484 (Channel 14), 2512- 2732 (Channels 15- 26- 20 Mhz)
5.8 GHz Power and sensitivity chart:
350 Mw Amplified A- 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6
5.8 GHz Radio transmit power 23 dBm nominal @ 24 Mb/sec, 21 dBm nominal @ 54 Mb/sec
5.8 GHz Radio receive sensitivity -91 dBm @ 12 Mb/sec, -74 dBm @ 54 Mb/sec
600 Mw Amplified X- 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6
5.8 GHz Radio transmit power 28dBm
5.8 GHz Radio receive sensitivity -96 dBm

System Hardware Features

Dimensions (IP66- RF unit) 9" x 7" x 3.5" (22.9 cm x 17.8 cm x 8.9 cm)
Weight (per RF unit) 4.5 lbs.
Shipping weight (complete package) Approx. 26 lbs. (standard package)
700 MHz- 128 MRAM processor
Operating temperature -30°C to 55°C (-20°F to 131°F)- Storage temperature -30°C to 75°C (-20°F to 167°F)
Humidity 0% to 100% (Non-immersion rain)- Wall wart power supply included Yes, 110/240 VAC
Power design: Carrier Class Power over Ethernet
Power required (at radio) +12 to +48 VDC (from included power supply)
Wired Network Interface (at PoE injector) RJ-45 10/100Base-T
Certification: Part 15 FCC
Warranty 1 year depot

More Information: info@wi-Corp.com

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