

# Halo

## 5.2-5.8GHz Wireless



### Description

The Halo Radios can play various roles in your wireless network due to their detachable antenna design. This allows you to use the appropriate antenna for your application and makes deployment much more flexible. Using advanced OFDM and power amp technology, the Halo Radios have high output power and amazing throughput even at long distance transmission. It operates at 5 GHz band (5.18, 5.25, 5.47, and 5.725 GHz) with 80+ non-overlapping channels. This 802.11a outdoor radio is an ideal solution for enterprise / campus connectivity, hotspot and next-generation broadband wireless access. It's easier and more cost effective to deploy the wireless access environment with the Wireless Distribution System (WDS) technology. Saving 30 – 50% cost for telecom operators, ISPs and enterprises. The Halo Radios employ powerful security management because they support WEP 64/128/152-bit, 802.1x authentication (EAP), MAC filtering, hidden SSID, client isolation, WPA-PSK and WPA encryption.

### Applications:

- Long distance PTP or PTMP bridging.
- Wide area hotspots.
- Redundant links between buildings.
- Cost effective alternative to wired networks.
- Dedicated ISP connections for high-reliability subscribers.

### Features

#### Large coverage areas

High output power up to 200mW and low noise figures extend the transmission capabilities and broaden the coverage areas.

#### Impressive 54Mbps data rate at long range

Unique OFDM technology breaks the distance barriers of 802.11g standards. We've succeeded in extending the signal up to 2~12 miles (3~20 Km) using a 54Mbps (Max.) data rate.

#### Flexibility

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#### Manageability

Through your web browser, the Halo Radios are fully manageable both locally and remotely. In addition, built-in SNMP support allows ISP and enterprise operators expand their networks' infrastructure with ease.

#### Reliability

The Halo Radios are among the most reliable outdoor radios you can find. The IP68 certified outdoor housing protects the radio from the elements, and the robust design of the radio's functionality make this a stable platform for your data.

#### Security

WEP 64/128/152-bit encryption, WPA-PSK, WPA, 802.1x authentication (EAP), disable broadcast SSID, client isolation and MAC filtering.



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### Specifications

Frequency 5 GHz Band  
Standards IEEE 802.11a  
Operating Channels FCC (USA) 5.180 GHz – 5.350 GHz , 5.725 GHz – 5.825 GHz  
ETSI (EUR) 5.150 GHz – 5.350 GHz , 5.470 GHz – 5.725 GHz  
MKK (JAPAN) 5.150 GHz - 5.250 GHz

Output Power Halo-200 23dBm (200mW)  
Halo-200IA 46dBm (40W) EIRP

Beamwidth (HALO-200IA only) 10 degrees horizontal and vertical  
-81 dBm @ 14Mbps  
-83 dBm @ 12Mbps  
-85 dBm @ 9Mbps

Receive Sensitivity (BER 10<sup>-6</sup>)  
-87 dBm @ 6Mbps  
-89 dBm @ 4.5Mbps  
-91 dBm @ 3Mbps  
-93 dBm @ 2.5Mbps  
-95 dBm @ 1.6Mbps

Modulation OFDM / DSSS  
Range Up to 12 miles (20 Km)

#### INTERFACES

RF (antenna) connector N-type (Jack)  
Ethernet IEEE 802.3(10Base-T) / IEEE 802.3u(100Base-Tx)  
IEEE 802.1d (spanning tree protocol)

#### MANAGEABILITY

Management and Setup Web-based configuration  
SNMP agents MIBII  
Operating Modes AP / Station / Smart WDS  
Protocol TCP/IP, IPX/SPX, NetBEUI  
Operating System Windows 98, 2000, NT, XP  
Network Architecture Point-to-Point / Point-to-Multipoint (CPE) / Repeater  
DHCP Supports DHCP client

#### SECURITY

Data Encryption WEP 64/128/152-bit encryption  
WPA-PSK  
WPA  
Authentication 802.1x Auth. (EAP)  
Authorization MAC Filtering  
Advanced Security  
Hidden SSID  
Layer 2 Isolation (Client Isolation)

#### ENVIRONMENT

Operating Temperature -20 C ~ 55 C  
Storage Temperature -30 C ~ 70 C  
Humidity 95% non-condensing

**WEIGHT** 1.7 kg (3.75 lbs) Halo-200 2.9 kg (6.4 lbs) Halo-200IA

**PHYSICAL DIMENSIONS** ( W x L x H )

350 x 350 x 95 mm Halo-200 14 x 14 x 3.75 in. 335 x 335 x 81 mm Halo-200IA 13.2 x 13.2 x 3.2 in.

Specifications subject to change without notice