



**HALO-200**

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.
- Enterprises or Institutional LAN and PBX extension.

**large coverage areas**

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

**impressive 22Mbps 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 22Mbps effective data rate.

**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.

**flexibility**

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.

**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.



**HALO-200IA**

**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.

<b>RADIO</b>		
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	
Receive Sensitivity (BER 10 <sup>-6</sup> )	-81 dBm @ 14Mbps	
	-83 dBm @ 12Mbps	
	-85 dBm @ 9Mbps	
	-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)	
<b>INTERFACES</b>		
RF (antenna) connector	N-type (Jack)	
Ethernet	IEEE 802.3(10Base-T) / IEEE 802.3u(100Base-Tx)	
	IEEE 802.1d (spanning tree protocol)	
<b>MANAGEABILITY</b>		
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	
<b>SECURITY</b>		
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)	
<b>ENVIRONMENT</b>		
Operating Temperature	-20 C ~ 55 C	
Storage Temperature	-30 C ~ 70 C	
Humidity	95% non-condensing	
<b>WARRANTY</b>		
	1 year	
<b>POWER SUPPLY</b>		
	AC 100-264 V, DC 24 V, 50-60Hz	

note: all specifications subject to change without notice.