



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.

GDI Communications LLC

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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 ⁻⁶)	-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

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