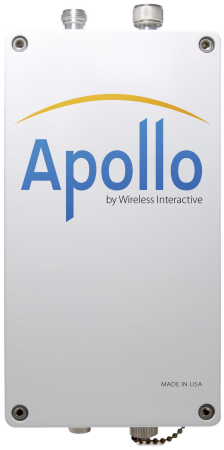
apollo series radio

APOLLO-24



Apollo was built from the ground up with a mission to create the most robust and reliable 2.4 GHz access point on the market. From security, to receiver sensitivity, to its superior build quality, Apollo is a natural when it comes to quality and reliability.

Features

» Point-to-point, point-to-multipoint and linear topologies
» Fixed wireless links in excess of 50 miles (80 kilometers)
» Spread spectrum operation at 2.4 GHz
» Narrow RF bandwidth for efficiency
» Remote management through Telnet or SNMP
» Remote software updates
» Burst sync mode allows for deployment of co-located radios

Rugged Outdoor Enclosure

All of Apollo's electronics are housed in an environmentally sealed enclosure reated for outdoor installation. This allows you to mount Apollo near your 2.4 GHz antenna, which increases system performance by avoiding RF cable loss.

Narrow RF Bandwidth

Apollo's narrow 4.6 MHz channel bandwidth provides greater receiver sensitivity figures, allowing longer ranges. Plus, this means a greater number of non-overlapping channels to avoid interference.

Long Range Link Stability

Apollo allows you to select the most desirable receive and transmit frequencies at each end of the wireless link, allowing for a strong, clear signal.

Voice over IP Prioritization

Apollo allows your users to be heard loud and clear by using VoIP packet prioritization. That means both data and voice can be transmitted via a single Apollo link without significantly impacting the quality of your voice transmission.

Built-in Signal Analysis

Apollo incorporates spectrum analysis and timing analysis tools, which provides a quick survey of the RF environment without the need for any additional spectrum analyzers.

Built-in Antenna Alignment Tool

Apollo includes a unique antenna alignment feature that displays the quality of the link via the software interface or via an audible tone output.

Low Power Consumption

Apollo doesn't guzzle power like a lot of 2.4 GHz radios in its class. Instead, it was designed to consume little more than 5 watts of power. That means Apollo feels right at home when connected to solar power or anywhere high voltage isn't available, making remote installations a breeze.

WEIGHT

1.10 kg (2.40 lbs) APOLLO-24

PHYSICAL DIMENSIONS (W x L x H)

4.72 x 8.66 x 2.20 in
12.0 x 22.0 x 5.6 cm

RADIO	
Frequency	2400 - 2483 MHz (2400 - 2500 MHz available internationally)
Channel Bandwidth	4.6 MHz
Output Power	200mW (23 dBm)
Receive Sensitivity (BER 10^{-6}) / Output Power	-97 dBm @ 0.25 Mbps
	-94 dBm @ 0.50 Mbps
	-93 dBm @ 1.375 Mbps
	-90 dBm @ 2.75 Mbps
Frequency Stability	+/- 10 ppm
Modulation	Direct Sequence Spread Spectrum (DSSS)
Range	Over 50 miles (80 kilometers)
ETHERNET PORT	
Speed	10/100 Mbps, full/half duplex, auto-negotiate
Connector	8-pin circular (Lumberg 0321-08), RJ-45 at power inserter
CONSOLE PORT	
Interface	RS-232 / V.24
Baud Rate	9600 to 115.2 Kbaud
Connector	3-pin circular (Lumberg 0321-03)
POWER	
Input Voltage	8 to 28 Volts DC, 110 to 220 VAC (external supply)
Consumption	5 Watts
ENVIRONMENT	
Operating Temperature	-40 C ~ 70 C
Humidity	95% non-condensing
Mounting Method	Pole mounting
WARRANTY	
1 year	

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