GeoDesy FSO
www.geodesy-fso.com

GEO50 - 2.4 -5Ghz

DATASHEET

WiFi CERTIFIED® a b g n · LIFE TIME WARRANTY · PoE

Key features

29 dBi output power
Full, half, and quarter bandwidth channels
Compact weatherproof enclosure
Industry standard interfaces
Secure data transmission
Quick installation and re-deployment
Built-in automatic failover
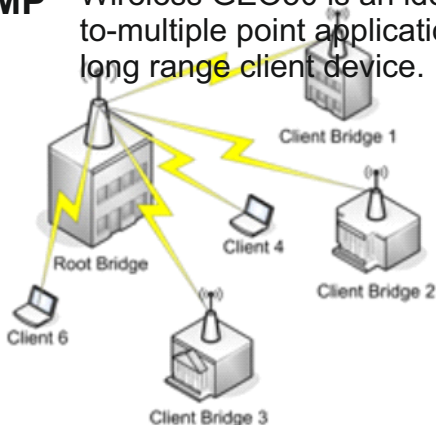License free operation

Description

The GEO50 presents a 5 GHz point-to-point product with superior performance building long distance links. This product is equipped with an extreme output power (up to 29 dBm) 802.11n radio that was created with a unique hardware design and coupled with a reliable, feature-rich operating system. This device also has a robust, IP-67 compliant enclosure which is combined with a high-gain dual-polarized panel antenna. The GEO50 is generally designed for PTP applications,but can also act as a high-end client device.The included, software engine allows the GEO50
to work as bridge or as a router.
Management System for one of the most advanced management tools on the market.

.. And all this comes with a limited lifetime warranty...

Usage examples

PTMP Wireless GEO50 is an ideal device for point-to-multiple point applications as a medium to long range client device.

Client Bridge 1

Client 4

Root Bridge

Client Bridge 2

Client 6

Client Bridge 3

GEO50 is a great device for medium to long range point-to-point applications.   **PTP**

Building A

Building B

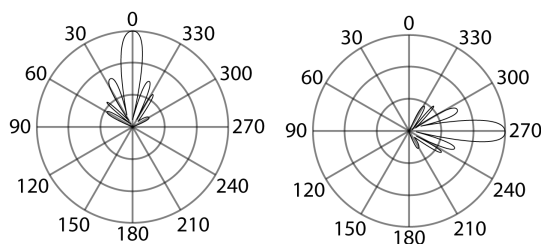| Product Distance Recommendation	PTMP Mode	PTP Mode	PTP Mode (Full Capacity)
Geo 50	25 km	50 km	10 km

Wireless

WLAN standard	IEEE 802.11 a/n
Radio Mode	MIMO 2x2
Operating modes	Access point (auto WDS), Station, Station WDS, iPoll Access Point, iPoll Station
Radio frequency band	5 Ghz
Transmit power	Up to 29 dBm (country dependent)
Receive sensitivity	Varying between -95 and -75 dBm depending on modulation
Channel size	20 - 40 MHz
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps
	802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Error correction	FEC, Selective ARQ, STBC
Duplexing scheme	Time division duplex

Antenna
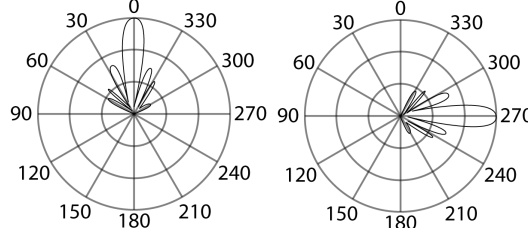
Type	Integrated directional dual-polarized panel
Gain	23 dBi

RF patterns (horizontal)

RF patterns (vertical)

Frequency range	4.9 - 5.9 GHz
Gain	23 dBi
Polarization	Dual linear
Cros-pol Isolation	27dB minimmum
Max VSWR	1.5:1
H-pol Beamwidth	6 deg
V-pol Beamwidth	7 deg
Elevation Beamwidth	9 deg

Wired

Interface	10/100 Base-T, RJ45
Built-in surge protection	Yes

Networking

Operating modes	Bridge, Router
WAN	Static IP, DHCP client, PPPoE client
NAT	Routing w/ or w/o NAT
Static routing	Supported
DHCP	Client, Server, Relay
Port forwarding	Supported
VLAN	Supported for management and data

Your distributor:

WARRANTY LIFE TIME WARRANTY