GeoDesy FSO
www.geodesy-fso.com

GEO30 - 2.4 - 5 Ghz

DATASHEET

Key features

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

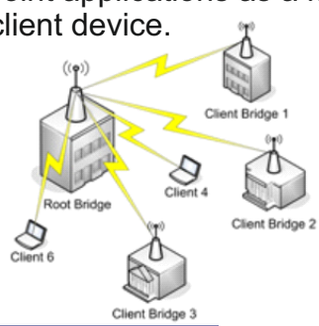
The GEO 30delivers the highest performance and stability available in the 2.4 GHz Base Station class This product is equipped with an extreme output power (up to 30 dBm) 802.11n MIMO radio wrapped securely inside a robust IP-65 compliant enclosure with two N-type con¬nectors, suited for wide coverage area applications. The robust hardware is coupled with an advanced and feature-rich operating system optimized for high performance communications which allows compatibility with older 802.11b/g standards while adding support for the latest in wireless communications. The GEO 30supports access point, station, and WDS operating modes and can act as bridge or as router making it one of the most flexible devices on the market.
The software engine allows the GEO 40 to work as AP, bridge or as a router, provides a user-friendly based GUI with instant changes, includes useful installation tools (Site survey, Antenna alignment, Delayed reboot, Spectrum analyzer, ping, traceroute) and also is compatible with Wireless Network Management System for one of the most advanced management tools on the market.
.. **And all this comes with a limited lifetime warranty...**

Usage examples

PTP

GEO30 is a great device for medium to long range point-to-point applications.

Wireless GEO30 is an ideal device for point-to-multiple point applications as a medium to long range client device. **PTMP**



Product Distance Recommendation	PTMP Mode	PTP Mode	PTP Mode (Full Capacity)
Geo 30	Antenna dependent	Antenna dependent	Antenna dependent

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Wireless

WLAN standard	IEEE 802.11 a/b/g/n
Radio Mode	MIMO 2x2
Operating modes	Access point (auto WDS), Station, Station WDS, iPoll Access Point, iPoll Station
Radio frequency band	2,4 / 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

Wired

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

Antenna

Type	N-Connectors for external antenna
Gain	Antenna dependent

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

Receive sensitivity (dBm)	802.11 N/ iPoll	**15 Mbps**	**30 Mbps**	**45 Mbps**	**60 Mbps**	**90 Mbps**	**120 Mbps**	**135 Mbps**	**150 Mbps**
		-94	-92	-89	-86	-83	-78	-76	-74
		30 Mbps	**60 Mbps**	**90 Mbps**	**120 Mbps**	**180 Mbps**	**240 Mbps**	**270 Mbps**	**300 Mbps**
		-94	-92	-89	-86	-83	-78	-76	-74
	802.11g	**6 Mbps**	**9 Mbps**	**12 Mbps**	**18 Mbps**	**24 Mbps**	**36 Mbps**	**48 Mbps**	**54 Mbps**
		-94	-93	-92	-90	-87	-84	-79	-77

Output power (dBm)	802.11 N/ iPoll	**15 Mbps**	**30 Mbps**	**45 Mbps**	**60 Mbps**	**90 Mbps**	**120 Mbps**	**135 Mbps**	**150 Mbps**
		29	28	28	28	27	26	25	24
		30 Mbps	**60 Mbps**	**90 Mbps**	**120 Mbps**	**180 Mbps**	**240 Mbps**	**270 Mbps**	**300 Mbps**
		29	28	28	28	27	26	25	24
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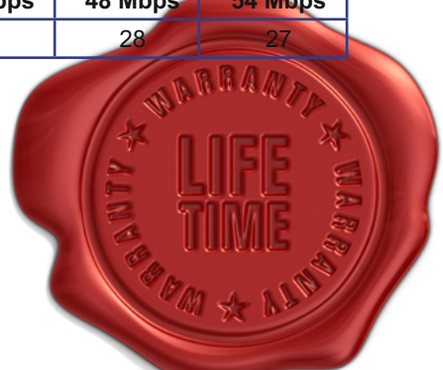
Your distributor:



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