The GEO20 delivers the highest performance and stability available in the 2.4 Ghz CPE class. This product combines a robust IP-66 compliant enclosure with a highly advanced 802.11n radio core containing MIMO 2x2 technology along with an integrated high gain dual polarization directional antenna. The device is powered by a reliable, advanced, and feature-rich operating system, allowing the creation of very high throughput and stable wireless networks quickly, safely, and effectively.
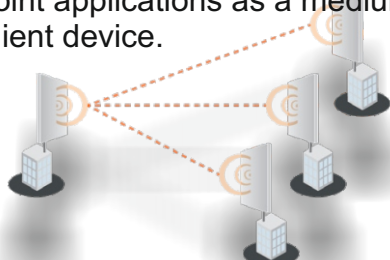
In addition, the GEO20 supports access point operating mode which extends application

scenarios and makes the GEO20 suited for both point to point and point to multipoint networks.The robust software engine allows the GEO20 to work as bridge or as a router, provides a user-friendly Adobe Flex - 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

PTMP Wireless GEO20 is an ideal device for point-to-multiple point applications as a medium to long range client device.

GEO20 is a great device for medium to long range point-to-point applications. **PTP**

Product Distance Recommendation	PTMP Mode	PTP Mode	PTP Mode (Full Capacity)
Geo 20	7 km/ 4.35 mi	20 km/ 12.43 mi	2 km/ 1.24 mi

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	2.4 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

Receive sensitivity (dBm)		15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
	802.11 N/ iPoll	-93	-91	-89	-86	-83	-79	-77	-75
		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
		-93	-91	-89	-86	-83	-79	-77	-75
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		-95	-94	-92	-90	-87	-84	-79	-77

Output power (dBm)		15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
	802.11 N/ iPoll	29	29	29	29	28	28	27	27
		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
		29	29	29	29	28	28	27	27
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		29	29	29	29	28	28	27	25

Antenna

Type	Integrated directional dual-polarized panel
Gain	18 dBi

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