Trimble
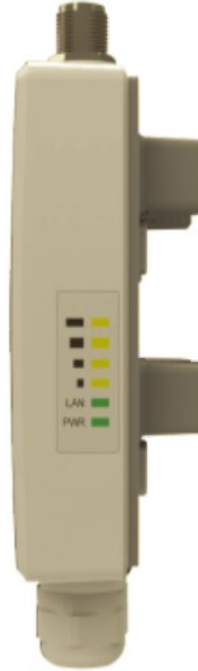## Free Space Optics

GEO30/5 5Ghz
GEO30/2 2.4Ghz

5GHz or 2.4GHz 300Mbps Hi-Power Outdoor Wireless WISP CPE

Features and Benefits

a b g WiFi n CERTIFIED

Scalability in throughput and latency

Ethernet 10/100

2.4GHZ or 4.9-6GHz ISM bands

Range up to 50km*

Advanced MIMO OFDM Radio Platform

Raw data rates up to 300Mbps 2x2 MIMO
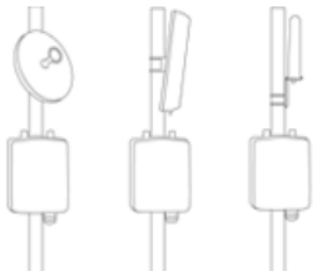
Carrier-class OS and resiliency features

Passive POE(24VDC)

Supports site survey

IP65 outdoor weather proof housing.

Near & Non- LOS Operation

* Depends on radio environment

External N-connectors make Geo 30 very universal device suitable for long range point-to-point (using external dish antenna), long range point-to-multipoint (using high-gain sector antenna) or hotspot application (using Omni-directional antennas).

Trimble Geo range delivers the highest performance and stability available in the 2.5 GHz or5 GHz CPE class. This product combines a robust IP-66 compliant enclosure with a highly advanced 802.11a/b/g/n radio core containing MIMO 2x2 technology along 2 x N Type connectors allowing for a choice of antenna in any situation. 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 GEO 30 supports access point operating mode which extends application scenarios and makes the GEO 30 suited for both point to point and point to multipoint networks. The robust software engine allows the GEO 30 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 analyser, ping, trace route) and also is compatible with Wireless Network Management System for one of the most advanced management tools on the market.

Trimble Wireless series equipment has external LEDs that can be used for:

Antenna alignment (RSSI level) in a client mode

Seeing average RSSI level on the base-station side

Seeing lowest RSSI level on the base-station side

Seeing number of clients connected on a base-station side

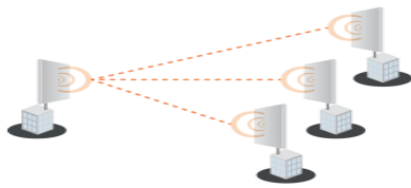Thresholds can be specified in the GUI for each mode

www.geodesy-fso.com

Trimble
Free Space Optics

GEO 30/5 5Ghz
GEO 30/2 2.4Ghz

5 or 2.4GHz 300Mbps Hi-Power Outdoor Wireless WISP CPE

Connecting multiple Buildings together

Video Surveillance and CCTV Networks

Leased line or fibre replacement

Remote Monitoring

Point to Multi Point 10Km

Point to Point 50Km

Specifications Geo 30/2/5

Band Width	300Mbs In 2x2 Mimo Mode
CPU	600Mhz Mips CPU
Security	64/128-bit WEP, WPA, proprietary Mode
Management	Local –Remote config, control and administration via Telnet, SSH, HTTP, SNMP
Advanced wireless Functionality	ATPC (Automatic transmit power control)
Power Consumption	6.5W, 24 Volts Power Over Ethernet
DHCP	Client, server, Relay
Operating Temp	-40....+60 deg C
Wireless Frequency	5Ghz or 2.4Ghz (a/b/g/n/) Supports extended 4.9-6.0GHz licensed bands
Interface	100mbp Etherent
Antenna Gain	Add Hoc
Management	Web based SNMP compatible in-band management
System latency	<3ms
H Pol Beam Width	Antenna dependent
V Pol Beam Width	Antenna dependent
Weight	400g
Dimensions	150x150x55mm
Operating Channels	13
Radio Architecture	Support ad-hoc, peer-to-peer networks and infrastructure communication to wired Ethernet networks via Access Point
Sensitivity @ FER=0.08	54 Mbps OFDM -73 dBm; 48 Mbps OFDM -76 dBm; 36 Mbps OFDM -82 dBm; 24 Mbps OFDM -85 dBm; 18 Mbps OFDM -88 dBm; 12 Mbps OFDM -89 dBm; 11 Mbps OFDM -91 dBm; 9 Mbps OFDM -90 dBm; 6 Mbps OFDM -91 dBm; 5.5Mbps OFDM -92 dBm; 2 Mbps OFDM -93 dBm; 1 Mbps OFDM -94 dBm

Product Code	Description
GEO-30/5	GEO 30/5 2x2 MIMO Radio Unit, 5GHz Std Power, 300Mbps, External Antenna 100Mb POE Interfaces
GEO-30/2	GEO 30/2 2x2 MIMO Radio Unit, 2.5GHz Std Power, 300Mbps, External antenna, 100Mb

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