



MULTIHAUL™ TG MPL-261 PTP

Out of the Box Auto-Connect PtP Link, with Auto-Aligned Antennas

The MultiHaul™ TG system marks the release of Siklu's 3rd generation point to multipoint 60GHz products, this one with Terragraph certification. The solution consists of Nodes operating over millimetre waves in a redundant mesh topology which connect a suite of Terminal Units (TU). The MultiHaul TG family of products brings the advantages of mmWave spectrum – multi-gigabit capacity, immunity to interference and massive amounts of available spectrum - to an easy to deploy solution with the addition of L2 SDN mesh, enabled by Siklu's SmartHaul™ NMS with the Runner subsystem, for stress-free coverage extension and multi-path reliability. MultiHaul TG MPL-261 is a plug-and-play solution for rapid deployment of point-to-point connectivity.

A Wide Range of Applications

- Fixed 5G Wireless Access, Gigabit to the Home, the MDU and the Enterprise
- Wi-Fi Hotspot Backhaul
- Security / Safe City Networks
- Smart City Business Services, Municipal networks
- Small Cell Backhaul
- Fiber hand-off

Plug and Play with true Auto-connect

The MultiHaul TG MPL-261 is built with 2 plug-and-play radio units pre-configured to auto connect. Install the units and loosely point them to each other to achieve connectivity up to 1Gbps.

Always-On Mission Critical Networks

When you can't afford to lose a video stream, critical safe city sensor data or any other mission critical data, you need a wireless network that's as reliable and secure as fiber. With maximal immunity to interference and hacker-proof links with embedded AES encryption, MultiHaul™ TG delivers a network you can count on.

Simple Integrated Future-safe Multi-Functional Link

Wireless infrastructure should be simple, and future proof. Organizations want to quickly deploy a single link, knowing that this infrastructure will address current and future needs, with enough horsepower to scale the bandwidth and accommodate new features over the foreseeable future, achieving a long and useful lifetime.

Fiber Quality with Wireless Flexibility

Siklu's millimeter wave radios successfully combine the capacity of fiber with the flexibility, speed of deployment and low TCO of wireless networks. That is what makes them the world's best-selling millimeter wave radios every year since 2011. They provide rock solid performance, even in very dense networks or under severe weather conditions, in thousands of networks around the globe.

Highly Secure and Physically Immune Beams

The narrow beamwidth confers several advantages including immunity to interference and network jamming. In contrast to wide-beam wireless systems that need to use multiple strategies to perform in dense areas. Multiple subscribers and services can be connected with complete isolation based on VLAN ID.

Ready Set Go

The plug and play link is designed for an easy single person installation. The patent-pending scanning antennas automatically aligns with the other end.



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Specifications

The main specifications of the MultiHaul TG MPL-261 are outlined in the following table.

Topologies	Point to Point.
Frequency & Duplexing	57-66GHz, TDD/TDMA. 4 channels.
Channel Bandwidth, Modulation & Coding, TPC	2160MHz, BPSK to QAM16, up to 10 levels of hitless adaptive coding and modulation – boost gain by over 29dB. Automatic Transmit Power Control (ATPC), per link.
Radio OTA Rate (over the air) / Throughput	OTA up to 4,600 Mbps, Throughput up to 1,000 Mbps full duplex.
System Gain (link budget)	RF2 enabled, up to 128.5dB (TU to TU, including RF2 antenna gain). Please refer to Siklu SmartHaul™ Link Budget Calculator (lbc.siklu.com) for radio link performance models.
Scanning	Scanning: horizontal 90°, vertical 25°.
Mechanical tilt	adjustment with supplied MK = ±20°, with optional EH-MK-SM = ±60°.
Interfaces	Per side: 1x RJ-45 1GbE with PoE-In.
Ethernet Features	IEEE 802.1d transparent bridging, IEEE 802.1q Virtual LAN, IEEE 802.1ad Provider bridge VLAN stacking.
Security	AES 128-bits OTA, GUI over HTTPS, CLI over SSH, file transfer over SSH, IP-less operation (on the remote).
Management & Provisioning	In-band, Out-of-band management, Web GUI (one-pane configuration of local and remote units) & Embedded CLI, NETCONF, SNMP.
Power Supply	Per side: PoE-In (IEEE 802.3af/802.3bt class 3 or passive), 12.5W.
Terragraph	Terragraph certified.
Conformance	Radio: US FCC 47 CFR Part 15.255; EN 303 722, EMC: US FCC 47 CFR Part 15; EN 301 489, Safety: UL/IEC 62368-1; UL/IEC 60950-22.
Environmental	Operating Temperature: -49° ÷ +131°F (-45° ÷ +55°C); Ingress Protection Rating: IP67.
Dimensions	Per side: 4.3 x 6.2 x 2 in. / 108 x 157 x 52 mm. (W x H x D), mounting kit not included.
Weight	Per side: 3.4 lbs. / 1.7 Kg.
In the Box	Per side: Terminal unit with attached mounting kit, metallic bands, indoor PoE power supply with AC cable, AWS (All Weather Shell, aka gland). Optional accessories: extended elevation mounting kit