RISING CONNECTION

PRODUCT DATASHEET
Multihaul™ TG Node N366

Siklu

MultiHaul™ TG Node N366

The Ideal Solution for Scalable Deployments

Enhanced 360-degree coverage in one unit for Terragraph deployments

The MultiHaul™ TG system marks the release of Siklu's 3rd generation point to multipoint 60GHz products, 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™ Runner application, for stress-free coverage extension and multi- path reliability. MultiHaul TG Node, N366, is the ideal solution for scalable deployments across neighbourhoods and business environments.

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Features

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

High Capacity and Flexibility for Dense Deployments

The MultiHaul TG Nodes operate with 4 independent sectors over the millimetre wave spectrum using narrow beams. This confers several advantages including multi- gigabit capacity in dense deployments. With 4 independent high-gain beam-forming antennas, a multitude of network topologies can be realized to optimise coverage, capacity and performance.

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. An additional layer of reliability is available through the L2 self-organising (SON) capabilities enabled by SmartHaul NMS with Runner, enabling automatic reorganisation and rerouting around site failures.

Simple Integrated Future-safe Multi-Functional Node

Wireless infrastructure should be simple, and future proof. Organisations want to quickly deploy a single box across the target neighbourhood, knowing that this infrastructure will address the needs of self-backhaul, distribution, local services, redundancy, SLA enforcement, with enough horsepower to scale the bandwidth and accommodate new features over the foreseeable future, achieving a long and useful life time.

Fiber Quality with Wireless Flexibility

Siklu's millimetre 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 millimetre 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 physical port, VLAN ID and/or a Terminal Unit.

Ready Set Go

The plug and play integrated node is designed for an easy single person installation. The patent-pending scanning antennas automatically aligns with other Nodes or with TUs. For buildings with difficult roof-top access, a single Node is installed on its roof to serve multiple locations.

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Specifications

Topologies	Point to Point, Point to Multi-point, Self-Backhaul L2 SDN Mesh
Frequency & Duplexing	57-66GHz, TDD/TDMA. 4 channels
Channel Bandwidth, Modulation & Adaptive 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 per sector, Throughput > 3,800 Mbps per sector (> 16Gbps per node)
System Gain (link budget)	110dB (Node to Node/TU, including antenna gain)
Sector(s)	4x 90° sector, for 360° coverage, any sector on any channel. Horizontal scanning: 90° per sector, Vertical scanning: 50°
Network synchronisation	On-board GPS
Interfaces	3 ports: 1x RJ-45 10/5/2.5/1GbE with PoE-In, 1x RJ-45 1GbE with PoE-Out (35W), 1x SFP+ 10GbE
Ethernet features	IEEE 802.1d transparent bridging, Provider bridge - VLAN & VLAN stacking.
Security	AES 128-bits OTA, GUI over HTTPS, CLI over SSH
Management & Provisioning	In-band, Out-of-band management, Web GUI (one-pane configuration of local and remote units) & Embedded CLI, NETCONF
PoE-Out	1 port, 42W POE-Out (IEEE 802.3bt)
Power Supply	PoE-In (IEEE 802.3bt or passive), or 48V DC (via RJ-45 adaptor) 48W no POE-Out, 90W with 42W POE-Out.
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.
Terragraph	Terragraph certified
Environmental	Operating Temperature: -49° ÷ +131°F (-45° ÷ +55°C); Ingress Protection Rating: IP67
Dimensions	9.4 x 7.3 in. / 236 x 186 mm. (height x diameter)
Weight	7.9 lbs. / 3.6 Kg

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