World's smallest street-level Gigabit 60GHz radio

Game changing network connectivity.
The EtherHaul-500TX wireless bridge delivers interference-free, Gigabit Ethernet connectivity. Operating over an unlicensed band, the point-to-point link is swiftly deployed on street furniture to backhaul capacity-hungry services.

Applications for a Wide Range of Vertical Markets

- Video Surveillance Connectivity (CCTV)
- Gigabit-To-The-Home (GTTH)
- Wi-Fi Backhaul
- Business Broadband
- Wireless Internet Service Providers (WISPs)
- Building-To-Building Connectivity

World's Smallest Radio 5.9"x6.1"x3.54" 15x15.5x9cm

The palm-sized radio is swiftly and seamlessly integrated with street fixtures, greatly alleviating lengthy permit procedures. The one-box solution also incorporates an integrated antenna and GbE switch, with PoE-In and PoE-Out. These features reduce the number of fragile cable-runs, and eliminate the need for external devices used for cascading and servicing network supplementary devices, such as cameras.

Plentiful License-Free Spectrum

Siklu's 60GHz solution utilizes the ample 7GHz wide V-Band spectrum in the most efficient way known today. With 8 non-overlapping full capacity channels, which are also user-selectable, the EH-500TX provides the most scalable solution on the market for dense networks.

Interference-Free Communication

The non-linear high attenuation of the 60GHz spectrum is smartly utilized to facilitate optimal matching between link length and selected channel. This results in unmatched frequency reuse capabilities - with inherent narrow beams further increasing reuse factors. These features ensure interference-free, full capacity service, and empower networks with fiber-like robust quality connectivity.

Robust & Futureproof

The field proven all-weather IP67 sealed radio guarantees predicted carrier grade performance, even in harsh conditions, and facilitates futureproof systems and easily maintained SLAs. The combination of Gigabit capacity and sub-millisecond latency is leveraged to create scalable street-level extended cascading, with a reduced number of aggregation points.

Field Proven

Siklu's 60GHz solution utilizes EtherHaul's groundbreaking, all-silicon technology to provide proven reliability in all weather conditions. With an MTBF of over 80 years, thousands of units are successfully deployed around the globe.

Deploy & Go

With no Telco knowledge required, 8-levels of QoS-aware Gigabit Ethernet service is deployed in just 15 minutes. Optional advanced configuration is available via an intuitive Web GUI, while additional services may be remotely activated from a NOC.

Exceptional Value

The EH-500TX provides a fast Return On Investment (ROI) and minimizes Total Cost of Ownership (TCO). With marginal deployment costs, and a minimal number of required site visits for support services, the solution delivers an unbeatable price/Mb.

Versatile Integrated Toolkit

The integrated L2 switch with 4 extra ports enables service differentiation and SLA compliance without the need for additional equipment, while the PoE-Out further eases deployment.

Ground Breaking All-Silicon Technology

Siklu listens to customer pain points, and has combined the powerful network processor with the market's most advanced all-silicon RF circuit to ensure that service providers save OPEX. The 60GHz radio includes an integrated tool kit with the industry standard capacity testing software IPERF. The easy to use, time-conserving kit supports both TCP and UDP load testing, as well as an advanced 60GHz spectrum analyzer.

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EtherHaul™-500TX Specifications

Frequency, Duplexing	57-66 GHz, TDD
Channels	8 non-overlapping, full capacity
Modulation	QPSK-1/QPSK-2/QPSK-3/QAM16/QAM64
Adaptive rate	5 levels of hitless adaptive bandwidth, coding and modulation, boosting gain by 18dB
Throughput	100Mbps upgradable up to 200Mbps, aggregated
Interfaces	3xGbE RJ45 copper ports
Antenna	35dBi
Power supply	PoE+ (IEEE 802.3at)
PoE out	PoE out up to 53W; Port 2: up to 40W (IEEE 802.3at); Port 3: up to 26W (IEEE 802.3at)
Ethernet features	IEEE 802.1d transparent bridging Ethernet features Smart Ethernet pipes MAC learning 8-level QoS-aware forwarding Jumbo frames
Security	AES 128-bit and 256-bit
Management and provisioning	Web GUI (one click management for local & remote units), embedded CLI, SNMPv2/3, in-band, out-of-band Zero touch turn-up, TACACS+,RADIUS Integrated IPERF capacity tester and 60GHz spectrum site survey
Topologies	Ring, daisy-chain, mesh
Conformance	ETSI EN 302 217, UK IR 2078 & IR 2000, USA FCC Part 15.255, EMC, safety UL60950
Environmental	Operating Temperature: -45° to +55°C (-49° to +131°F) Ingress Protection Rating: IP67
Dimensions	Integrated ODU + antenna 5.9 x 6.1 x 3.5"; 16.5x16.5x10cm
Weight	Integrated ODU + antenna 1.8 kg (3.9lbs)

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