EtherHaul™-600TX Datasheet

World's smallest 60GHz radio – On-Every-Street™

Interference-free Gigabit everywhere

The EtherHaul-600TX wireless bridge delivers interference-free, Gigabit Ethernet connectivity. Operating over an unlicensed band, the point-to-point link is swiftly deployed on any street furniture to enable capacity-hungry services.

Applications for a Wide Range of Vertical Markets

- Video Surveillance Connectivity (CCTV)
- Gigabit-To-The-Home (GTTH)
- Wi-Fi Hotspot Backhaul
- Business Broadband
- Campus Connectivity

World's Smallest 60GHz Radio – less than 2 liters

The palm-sized radio is swiftly and seamlessly integrated with street furniture - greatly alleviating site acquisition procedures. The one-box solution incorporates an integrated antenna and GbE switch, with PoE-In and dual PoE-Out. These features reduce the number of fragile cable-runs and of power sources, and eliminate the need for external devices. Cascading radios and servicing supplementary devices such as surveillance cameras and Wi-Fi access points are simplified.

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-600TX 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. Tens of thousands of units are successfully deployed around the globe with a 90-year MTBF.

Versatile Integrated Toolkit

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:
- IPERF: integrated TCP and UDP load tester eases commissioning and remote trouble-shooting procedures.
- Spectrum Analyzer: eases operational channel selection and fault analysis.

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

With minimal deployment costs and virtually no maintenance, the EH-600TX minimizes Total Cost of Ownership (TCO) and provides a Return On Investment (ROI) often measured in months; providing an unbeatable price/Mb.

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EtherHaul™-600TX Specifications

Frequency	57-64GHz / 57-66GHz*, TDD
Channels	8 / 11* non-overlapping channels; User selectable BW: 125/250/500MHz
Modulation & Adaptive rate	QPSK-1/QPSK-2/QPSK-3/QAM16/QAM64 hitless adaptive bandwidth, coding and modulation boost gain by up to 22dB
Throughput	Up to 1,000 Mbps aggregated ** (user selectable: 500/500Mbps or 750/250Mbps)
Interfaces	3xGbE copper ports
Reach	Typical: 700m; Maximum: 1,500m (rain zone-dependent)
Antenna	Integrated, 36dBi (built-in the ODU)
Power supply	PoE+ (IEEE 802.3at), 26W without PoE-Out; up to 78W with PoE-Out
PoE-out	Port 2: up to 40W (IEEE 802.3at); Port 3: up to 26W (IEEE 802.3at)
Ethernet features	IEEE 802.1d transparent bridging 8-level QoS aware forwarding Smart Ethernet Pipe mode MAC learning 16K jumbo frames
Security	AES 128-bit and 256-bit
Management & provisioning	In-band, out-of-band management Web GUI (one-click configuration of local and remote units) Embedded CLI SNMPv2/3, TACACS+, RADIUS Zero-touch turn up Spectrum analyzer IPERF TCP/UDP capacity tester
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	ODU + integrated antenna: 5.9" x 6.1" x 3.5" (16.5 x 16.5 x 10cm)
Weight	ODU + integrated antenna: 3.9 lbs. (1.8 kg)

* 57-64/57-66GHz, 8 / 11 channels – subject to local radio spectrum regulations
** SW license dependent

Rev A0

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