



EtherHaul™ - 600T

V-band radio for street level connectivity

Future-Proof Connectivity to the Street

The EtherHaul-600T radio delivers ultra high capacity wireless point-to-point Ethernet connectivity to any kind of street furniture. Operating over the unlicensed 60GHz band, the palm-sized radio provides backhaul to small cells, Wi-Fi hotspots, security cameras or any device deployed on lamp posts, poles, traffic lights and buildings.

Easiest Installation

Any installer can deploy the EH-600T, no telco expertise necessary. Physical installation takes a couple of minutes, and alignment takes 30 minutes or less. Service activation can be performed from a NOC.

Small Size, Easy to Deploy & Manage

Invisibility is key for street level deployments, and the EH-600T is the smallest street-level radio in the world. Size: (H x W x D): 15cm x 15.5cm x 9cm , 5.9" x 6.1" x 3.54". Easy to use web GUI manages local and remote units.

Easy Spectrum Acquisition in Urban Areas

The V-band spectrum is unlicensed and also uncongested, even in dense urban areas. Use of a high-gain, pencil-beam antenna guarantees available spectrum anywhere and maximizes spectrum re-use.

Based on a Cost Reducing All-Silicon Technology

The EH-600T radio is based on Siklu's proven integrated-silicon technology, which increases reliability while reducing size and cost. The result is a palm sized radio with a 90-year MTBF and an unbeatable price/throughput.

Streamline Operations with Carrier Ethernet & Synchronization

The EH-600T has MEF-compliant integrated Carrier Ethernet that streamlines operations with bandwidth-aware QoS, service management

Typical Applications

- ▶ Small Cell Backhaul
- ▶ Wireless Security Networks
- ▶ Wi-Fi Hotspot Backhaul
- ▶ Urban fiber extension
- ▶ Urban campus connectivity

and OAM. For mobile operators, built-in synchronization with Sync-E or 1588v2 ensures smooth performance over packet backhaul.

Build Up Resiliency and Availability

The EH-600T has an integrated L2 switch and extra ports so you can deploy in ring, mesh or any high resiliency topology you need. It also incorporates Hitless Adaptive Bandwidth Coding and Modulation for high availability.

Field Proven Technology

The EtherHaul is the world's best selling millimeter wave radio. Thousands of units have been deployed and are performing reliably in varying weather conditions all over the globe.

Improves the Bottom Line

The EH-600T provides a fast return on investment (ROI) and minimizes total cost of ownership (TCO). The all-silicon design delivers unbeatable price/MB and very low deployment costs, and the high reliability reduces site visits.

Siklu
Magic in the air

EtherHaul™- 600T Specifications

Frequency, duplexing scheme	57-64GHz, TDD
Modulation	QPSK-1/QPSK-2/QPSK-3/QAM16/QAM64
Adaptive rate	Hitless adaptive bandwidth, coding and modulation, boosting system gain by 25dB
Throughput	Up to 1000 Mbps aggregated (with asymmetric/symmetric downlink/uplink rate)
Typical link distance	200-500m / 650-1600ft
Interfaces	3xGbE copper ports
Antenna	Integrated, 35dBi
Power options	PoE+ (IEEE 802.3at) or wide range input $\pm 21+57$ VDC
Ethernet features	VLAN (IEEE 802.1q) and VLAN stacking (Q-in-Q, IEEE 802.1ad Provider Bridge) IEEE 802.1d Transparent Bridging QoS, traffic shaping and policing MEF 9,14 and 21 compliant Ethernet OAM and CFM (IEEE 802.1ag / ITU-T Y.1731 / IEEE 802.3ah) Ethernet Ring Protection (ITU-T G.8032) Jumbo frames up to 16k
Synchronization	IEEE 1588v2 TC Synchronous Ethernet ITU-T G.8261/8262/8264
Network topologies	Ring, daisy chain, mesh
Encryption	AES 128-bit and 256-bit
Management, provisioning & commissioning	Web GUI (one click management of local & remote units), embedded CLI, SNMPv2/3, in-band, out-of-band Zero touch turn-up, TACACS+, RADIUS
Environmental	Operating temperature: $-45^{\circ} \div +55^{\circ}\text{C}$ Ingress protection rating: IP67
Regulatory	ETSI EN 302 217, UK IR 2078 & IR 2000, USA FCC Part 15.255, EMC, IC Canada, safety
Dimensions	ODU (H x W x D) - 15 cm x 15.5 cm x 9 cm (5.9" x 6.1" x 3.54")
Weight	ODU + Antenna: 1.8 kg (3.9 lbs)