

# 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 an auto-alignment toolkit can automatically align two antennas in 15 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

## Typical Applications

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

with bandwidth-aware QoS, service management 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  |
| Interfaces                               | 3xGbE copper ports  |
| Antenna                                  | Integrated, 35dBi   |
| Power options                            | Wide-voltage input: ±21+57VDC   |
| Ethernet features                        | VLAN (IEEE 802.1q) and VLAN stacking (Q-in-Q, IEEE 802.1ad Provider Bridge)<br>IEEE 802.1d Transparent Bridging<br>QoS, traffic shaping and policing<br>MEF 9,14 and 21 compliant<br>Ethernet OAM and CFM (IEEE 802.1ag / ITU-T Y.1731 / IEEE 802.3ah)<br>Ethernet Ring Protection (ITU-T G.8032)<br>Jumbo frames up to 16k |
| Synchronization                          | IEEE 1588v2 TC<br>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),<br>embedded CLI, SNMPv2/3, in-band, out-of-band<br>Zero touch turn-up, TACACS+, RADIUS  |
| Environmental                            | Operating temperature: -45° ÷ +50°C<br>Ingress protection rating: IP67  |
| Regulatory                               | ETSI EN 302 217, UK IR 2078 & IR 2000, USA FCC Part 15.255, EMC, safety UL60950   |
| Dimensions                               | ODU (H x W x D) - 15 cm x 15.5 cm x 9cm (5.9" x 6.1" x 3.54")   |
| Weight                                   | ODU + Antenna: 1.8 kg (3.9 lbs)   |