



EtherHaul™ - 1200

E-Band Radio

1000 Mbps aggregated
Service provider & LTE ready

Design a Future-Proof Wireless Network

The EtherHaul-1200 radio delivers ultra high capacity wireless point-to-point Ethernet connectivity that future-proofs your backhaul network. With an aggregated throughput of 1000 Mbps over the uncongested 71-76GHz spectrum using TDD, service providers and businesses can deploy affordable, spectrum efficient, high capacity wireless links that are easy to install and maintain.

Based on a Cost Reducing All-Silicon Technology

The EH-1200 radio is based on Siklu's advanced integrated-silicon technology, which increases reliability and reduces size and cost. The result is a very small, very light radio with a 90-year MTBF and an unbeatable price/throughput.

Easy Spectrum Acquisition in Urban Areas

The E-band spectrum is uncongested, even in dense urban areas. Use of a high-gain, pencil-beam antenna guarantees available spectrum anywhere and maximizes spectrum re-use. E-band also offers low licensing fees and quick licensing processes.

Streamline Operations with Carrier Ethernet & Synchronization

The EH-1200 has MEF-compliant integrated Carrier Ethernet that streamlines operations 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.

Asymmetric Capacity Optimization

Operating in TDD allows you to set-up asymmetric capacity configuration. Match your upload/download rates to your application and optimize use of spectrum.

Typical Applications

- ▶ Mobile Backhaul
- ▶ Fiber Extension
- ▶ Business Broadband Connectivity
- ▶ LAN to LAN Connectivity

Build Up Resiliency and Availability

The EH-1200 has an integrated L2 switch and an extra port 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.

Small Size, Easy to Deploy & Manage

The all-outdoor radio has a tiny footprint that eases site acquisition. Its light weight and small size contribute to a quick and easy installation. Easy to use web GUI manages local and remote units.

Field Proven Best Seller

The EtherHaul-1200 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-1200 provides a fast return on investment (ROI) and minimizes total cost of ownership (TCO). The all-silicon design delivers unbeatable price/MB; small and light form factor lowers installation costs, and the high reliability reduces site visits.

Siklu
Magic in the air

EtherHaul™- 1200 Specifications

Frequency, duplexing scheme	71-76GHz, 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)
Link budget (BER=10 ⁻⁶)	171dB (including 1ft antennas' gain) ; 185dB (including 2ft antennas' gain)
Interfaces	2xGbE combo ports, each either RJ-45 or SFP slot
Antenna	Integrated 1ft (31cm), 43dBi ; External 2ft (65cm), 50dBi
Power	PoE+ (IEEE 802.3at with power boost) Wide-voltage input: ±21+57VDC Power supply input redundancy
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 Optimized Transport 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° ÷ +55°C Ingress protection rating: IP67
Regulatory	ETSI EN 302 217, FCC 47 CFR part 101, CE marked, EMC, safety UL60950
Dimensions	ODU (H x W x D) - 24.5 cm x 22.5 cm x 5 cm (9.7" x 8.9" x 2") ODU + 1ft antenna (Dia. x Depth) - 31 cm x 13 cm (12.2" x 4.3") ODU + 2ft antenna (Dia. x Depth) - 65 cm x 37 cm (25.6" x 15.35")
Weight	ODU + 1ft antenna: 3.5 kg (7.7 lbs) ODU + 2ft antenna: 9.4Kg (20.7 lbs)