

EtherHaul™-1200T DataSheet



Carrier grade, Gigabit backhaul

Typical Applications

- Mobile Backhaul
- Carrier Network
- Small Cell Backhaul
- Wi-Fi Backhaul

Cost-Effective Network Expansion

The carrier grade EtherHaul-1200T radio delivers up to 1Gbps (aggregated) over the uncongested 71-76GHz band in the TDD duplex scheme. Siklu's wireless point-to-point Ethernet connectivity radios enable service providers to futureproof their networks with affordable, interference-free wireless products that are easy to install and maintain.

Easy Spectrum Acquisition in Urban Areas

The 10GHz-wide E-band spectrum is uncongested, even in dense urban areas. The combination of abundant spectrum and high-gain, pencil beam antennas guarantee channel availability everywhere, and maximized spectrum re-use. The E-band also has low licensing fees and quick acquisition procedures.

Small Size, Easy to Deploy & Manage

The all-outdoor radio has a small footprint that eases site acquisition. Its light weight and small size ensure swift and straightforward installations, while user-friendly web GUI manages local and remote units and can also copy configuration changes automatically to the remote unit. The built-in RFC-2544 throughput and latency tester further simplify commissioning and troubleshooting.

Streamline Operations with Carrier Ethernet & Synchronization

MEF-compliant integrated Carrier Ethernet streamlines operations with bandwidth-aware QoS, service management and OAM. Built-in synchronization with Sync-E and 1588V2 ensure smooth performance over packet backhaul for mobile operators. Implementation of various topologies (cascade or ring) is easily achieved without the need for additional equipment.

Field Proven Best Seller

Siklu's flagship product line, the EtherHaul series, is the world's bestselling millimeter wave radio. Tens of thousands of units have been globally deployed, and perform reliably in diverse weather conditions.

Asymmetric Capacity Optimization

Operating in TDD lets you set-up asymmetric capacity configuration, match your upload/ download rates to your application, and optimize use of spectrum. The EH-1200T asymmetric mode is ideally matched to traffic patterns and technology capabilities of cellular networks.

Carrier Grade Performance over Wireless

High throughput and low latency are combined to deliver fiber-like performance. The EH-1200T incorporates hitless adaptive bandwidth coding and modulation, perfectly synched with 8 levels of QoS, ensuring correlated payload prioritization.

Integrated 4-port Ethernet Switch

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

The EH-1200T is based on Siklu's advanced integrated silicon technology for reducing size and cost and increasing reliability. The result is a 90-year MTBF necessitating less site visits, decreased installation fees and a fast ROI with minimized TCO - all creating an unbeatable price/throughput.



EtherHaul™-1200T Specifications



Frequency, Duplexing	71-76 GHz, TDD
Modulation	QPSK-1/QPSK-2/QPSK-3/QAM16/QAM64
Adaptive rate	Hitless adaptive bandwidth, coding and modulation, boosting system gain by 25dB; with ATPC
Throughput	up to 1000 Mbps aggregated (with asymmetric/symmetric downlink/uplink rate)
Link budget (BER=10 ⁻⁵)	175dB (including 1ft antenna gain); 189dB (including 2ft antenna gain)
Ethernet interfaces	4x GE ports: 2x cooper + 2x SFP slots
Antenna options	1ft (31cm) -43dBi antenna gain, 2ft (65cm) -50dBi antenna gain
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) Smart Ethernet pipes per port 16K byte jumbo frames
Synchronization	1588 TC Synchronous Ethernet ITU-T G.8261/8262/8264
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, 30-day RF statistics history Integrated RFC-2544 tester (throughput and latency)
Topologies	Ring, daisy-chain, mesh
Conformance	ETSI EN 302 217, FCC 47 CFR part 101, CE marked, EMC, safety UL60950
Environmental characteristics	Operating Temperature: -45° ÷ +55°C (-49° ÷ +131°F) Ingress Protection Rating - IP67
Power supply	PoE+ (IEEE 802.3at) DC input: ±37-57VDC Hot standby power supply input redundancy
PoE-Out	PSE 26W (IEEE 802.3at)
Power Consumption	26W (without PoE-Out); up to 60W (PoE-Out enabled)
Dimensions (H x W x D)	24cm x 22.5 cm x 5 cm (9.7 inches x 8.9 inches x 2 inches) ODU + 1ft antenna (dia. x depth) -31 cm x 13 cm (12.2 inches x 4.3 inches) ODU + 2ft antenna (dia. x depth) -65 cm x 37 cm (25.6 inches x 15.35 inches)
Weight	ODU + 1ft antenna: 4 kg (7.7 lbs) ODU + 2ft antenna: 9.4Kg (20.7 lbs)