

EtherHaul™-700/710 Datasheet



Long Distance Street Level Gigabit Capacity

Interference-free Ethernet everywhere

The EtherHaul-700T wireless bridge series delivers cost-efficient, interference-free, Ethernet connectivity. Operating over an uncongested band, the point-to-point radio 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)
- Wi-Fi Hotspot Backhaul
- Business and Residential Broadband
- Campus Connectivity

World's Smallest 70GHz 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 Ethernet switch, with PoE-In and dual PoE-Out. These features reduce the number of fragile cable-runs and 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.

Easy Spectrum Acquisition in Urban Areas

The 5000MHz-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.

Interference-Free Communication

The inherent narrow beams, combined with the low transmit power increases network's scalability results in unmatched frequency reuse capabilities, while. These features ensure interference-free, full capacity service, and empower networks with fiber-like connectivity

Robust & Futureproof

The field proven, all-weather IP67 sealed radio guarantees predicted carrier grade performance, even in harsh conditions; facilitating futureproof investment and easily maintained SLAs. The combination of interference-free capacity and sub-millisecond latency is leveraged to create scalable street-level extended cascading, while reducing the number of OPEX-hungry aggregation points.

Field Proven

Siklu's EH-700T series 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.
- Advanced OAM: continuity test, service monitoring

Deploy & Go

With no Telco knowledge required, out-of-the-box 8-levels of QoS-aware Ethernet services may be 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-700T series minimizes Total Cost of Ownership (TCO) and provides a Return On Investment (ROI) often measured in months; providing an unbeatable price/Mb.



EtherHaul™-700/710 Specifications



		EH-700TX	EH-710TX	EH-710T
Frequency	71-76 GHz*, TDD	✓	✓	✓
Channels	125/250/500MHz wide, 32/16/8 non-overlapping channels	✓	✓	✓
Modulation & Adaptive rate	QPSK-1/QPSK-2/QPSK-3/QAM16/QAM64 hitless adaptive bandwidth, coding and modulation boost gain by up to 25dB, with ATPC	Up to QPSK 3	Up to QAM 64	Up to QAM 64
Throughput	Aggregated throughput up to	200	1000	1000
Link budget (BER=10 ⁻⁶)	166dB (including 0.5ft antenna gain) 176dB (including 1ft antenna gain) 190dB (including 2ft antenna gain)	✓	✓	✓
Interfaces	3xGbE copper ports	✓	✓	✓
Ethernet features	IEEE 802.1d transparent bridging Flexible 8-level QoS-aware SF/WFQ forwarding, based on VLAN-id/p-bits, IPv4/DSCP or MPLS EXP 4K VLANs; MEF 9,14 and 21; 16K jumbo frames Redundancy and networking: LAG/LACP (IEEE 802.3ad), ERPS (ITU-T G.8032)	✓	✓	✓
SynC support	Synchronous Ethernet and 1588v2 TC	-	-	✓
Security	AES 128-bit and 256-bit	✓	✓	✓
Management & provisioning	Zero-touch turn up; In-band, out-of-band management Web GUI (one-click configuration of local and remote units) & Embedded CLI SNMPv2/3, TACACS+, RADIUS Link OAM & Connectivity Fault Management (CFM): IEEE802.3ah & IEEE802.1ag; Performance Monitoring: ITU-T Y.1731 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 UL 60950	✓	✓	✓
Power supply	PoE+ (IEEE 802.3at), 26W without PoE-Out; up to 78W with PoE-Out	✓	✓	✓
Environmental	Operating Temperature: -45° to +55°C (-49° to +131°F) Ingress Protection Rating: IP67	✓	✓	✓
Dimensions	ODU + 0.5ft antenna: 5.9" x 6.1" x 3.5" (16.5 x 16.5 x 10cm) ODU + 1ft antenna (Dia. x Depth): 12.2" x 4.3" (31 x 13 cm) ODU + 2ft antenna (Dia. x Depth): 25.6" x 15.35" (65 x 37 cm)	✓	✓	✓
Weight	ODU + 0.5ft antenna: 3.9 lbs. (1.8 kg) ODU + 1ft antenna: 7.7 lbs (4 kg) ODU + 2ft antenna: 20.7 lbs (9.4Kg)	✓	✓	✓

* subject to local radio spectrum regulations