

EtherHaul™-8010FX Datasheet



10Gbps 70/80GHz Radio – Wireless Fiber Connectivity

The EH-8010FX delivers 10Gbps Full Duplex throughput for high capacity networks in Metro, Aggregation and Trunking applications.

Applications for a Wide Range of Vertical Markets

- Fiber Network Extension/ Backup
- Enterprise Multi Gigabit-Connectivity
- Metro and Aggregation Networks
- Multi-Dwelling Unit Gigabit Broadband
- Mobile Backhaul

10Gbps Over Long Distance

The EH-8010FX radio delivers 10Gbps full duplex point-to-point wireless Ethernet connectivity with the longest mmWave reach by means of the highest system gain in the market. Incorporating dozens of Siklu innovations, the EH-8010FX is based on the same platform that has been deployed in tens of thousands of links from the EtherHaul family

Carrier Grade Features

High throughput and low latency combine to deliver fiber compatible performance. The EH-8010FX incorporates QoS-aware adaptive bandwidth coding and modulation for high availability and easy integration with Ethernet switches or MPLS routers in highly resilient topologies.

The EH-8010FX is designed to connect into existing networks with its support for both copper and fiber 10G interfaces allowing service providers and enterprises to extend their copper or fiber networks.

Small Size, Easy to Deploy & Manage

The all-outdoor radio has a small footprint and is light weight which makes site acquisition a breeze. The product comes pre-configured out of the box with no license to download greatly simplifying the time and cost for installation. The intuitive web GUI manages local and remote units to enable fast commissioning and configuration.

Exceptional Value

With its IP67 construction, the EH-8010FX is extremely rugged and designed to last for years in the harshest conditions at a price that yields quick Return-On-Investment (ROI) and minimizes Total Cost of Ownership (TCO). The advanced 10Gbps system delivers an unbeatable price per Gb. Its small and light form factor lowers installation costs, increases reliability and reduces site visits.

Massive Spectrum Availability, and High Reuse

The EH-8010FX operates over the interference-free 71-76/81-86GHz E-band spectrum, with a total of 10GHz of bandwidth for use worldwide. By using a high-gain pencil-beam antenna, this helps guarantee spectrum will be available everywhere and maximizes spectrum re-use. Additionally, E-band systems are governed by low licensing fees and a quick licensing processes.



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EtherHaul™-8010FX Specifications

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Frequency / Duplexing	71-76GHz / 81-86GHz, FDD
Channel Bandwidth, Modulation & Adaptive Rate	500/1,250/2,000MHz Adaptive bandwidth, coding and modulation - boost gain over 20dB
Throughput	10,000Mbps full duplex
Tx Power	BPSK: +18dBm QAM128: +14dBm
Receive Signal Level (RSL)	RSL @ BPSK = -75dBm RSL @ QAM128 = -50dBm
Reach	1.7/2.3 mile @ 99.95% availability (rain zone K/E, 2ft ANT.)
Interfaces	1 combo 10GE port: 802.3bz (RJ-45, copper) or SFP+ (MMF or SMF) 1GE port: 802.3ab (RJ-45, copper)
Power Supply	PoE+ or 36±57VDC; 50W
Management & Provisioning	In / Out-of-band management Web GUI or CLI SNMPv2/3, TACACS+, RADIUS Zero-touch turn-up
L2, Traffic Management	Transparent Bridge, VLAN encapsulation QOS Aware Traffic Management
Security	AES (factory option)
Timing	Synchronous Ethernet and 1588v2 TC (factory option)
Conformance	Radio: USA FCC Part 15.101 & ETSI EN 302 217; EMC: USA FCC 47CFR.part 15 & ETSI EN 301 489; Safety UL/EN 60950
Environmental	Operating Temperature: -45° to +55°C (-49° to +131°F) Ingress Protection Rating: IP67
Dimensions	ODU + 0.5ft antenna: 9.17" x 8.11" x 5.55" (23.3cm x 20.6cm x 14.1cm) ODU + 1ft antenna (Dia. x Depth): 12.6" x 4.3" (32cm x 13cm) ODU + 2ft antenna (Dia. x Depth): 25.6" x 15.35" (65cm x 37cm)
Weight	ODU + 0.5ft antenna: 9.2lbs. (4.1kg) ODU + 1ft. antenna: 9.9lbs. (4.4kg) ODU + 2ft. antenna: 24.3lbs (10.9kg)

Rev.A1