

EtherHaul™-2500FX Datasheet



2Gbps 70/80GHz radio – Going beyond city limits

The EH-2500FX provides 2Gbps capacity with extended reach for accelerating broadband. Siklu's E-Band radio delivers fiber-like wireless solutions with expanded-reach, while creating substantial CAPEX savings.

Applications for a Wide Range of Vertical Markets

- GTTH - Gigabit To The Home
- Business Broadband
- Video Surveillance Connectivity (CCTV)
- Campus Connectivity

Robust & Futureproof

The EH-2500FX radio delivers 2Gbps full duplex point-to-point wireless Ethernet connectivity to futureproof your network. Operating over the interference-free 71-76/81-86GHz band, the FDD EH-2500FX has additional output power and wider channels, making it easy for providers and enterprises to extend their networks by very quickly adding affordable, high capacity, extended reach wireless links that are easy to install and maintain.

Carrier Grade Performance Over Wireless

High throughput and low latency are combined to deliver fiber-like performance. The EH-2500FX incorporates QoS-aware hitless adaptive bandwidth coding and modulation for high availability.

Creates Resiliency and Availability

The EH-2500FX has an integrated L2 switch and extra ports to enable deployment in ring, mesh or any high resiliency topology.

Small Size, Easy to Deploy & Manage

The all-outdoor radio has a small footprint that alleviates site acquisition. Its light-weight and small size make for a quick and easy installation, while the intuitive web GUI manages local and remote units to enable fast commissioning and configuration.

Based on Siklu's Field Proven Platform

The EH-2500FX is the extended-range 2Gbps evolution of the best-selling EtherHaul™ series - the world's top millimeter wave radio. Tens of thousands of links have been deployed and are performing reliably in diverse weather conditions all over the globe.

Fast Spectrum Acquisition at Affordable Cost

The E-band spectrum is uncongested, even in rural and dense urban areas. The high-gain pencil-beam antenna guarantees available spectrum anywhere and maximizes spectrum re-use. Additionally, the E-band technology requires a light licensing process with low licensing fees.

Exceptional Value

The EH-2500FX provides fast Return On Investment (ROI) and minimizes Total Cost of Ownership (TCO). The advanced 2Gbps system delivers an unbeatable price per MB. Its small and light form factor lowers installation costs, increases reliability and reduces site visits. Ultra-fast activation time with the unbeatable reliability will become your 'winning card' in any competitive environment.



EtherHaul™-2500FX Specifications



Frequency	71-76GHz / 81-86GHz*, FDD
Modulation & Adaptive rate	BPSK-1/BPSK-2/QPSK/QAM16/QAM32 hitless adaptive bandwidth, coding and modulation - boost gain by up to 23dB
Throughput	1,000Mbps @ 250MHz 2,000Mbps @ 500/750/1250MHz
Link budget (BER=10 ⁻⁶)	2Gbps @ 500MHz: 161dB / 175dB (incl. 1ft. / 2ft. antenna gain) 2Gbps @ 750MHz: 164dB / 178dB 2Gbps @ 1250MHz: 170dB / 184dB
Antenna options	1ft. (31cm) – 43dBi antenna gain 2ft. (65cm) – 50dBi antenna gain
Reach	Typical: 1.5miles; Maximum: 3 miles (rain zone-dependent)
Interfaces	4xGE ports: 2xcopper RJ45 + 2xSFP
Power supply	36+57VDC (flexible grounding); PoE++ (IEEE 802.3at++), 45W without PoE-Out; 60W with PoE Out
PoE-out	Port 2: 13W (IEEE 802.af)
Ethernet features	MEF 9,14 and 21 IEEE 802.1d transparent bridging 8-level QoS aware forwarding with SF/WFQ & MPLS EXP options Redundancy and networking: LAG/LACP, ERP (ITU-T G.8032) MAC learning 16K jumbo frames
Management & provisioning	In-band, out-of-band management Web GUI (one-click configuration of local and remote units) Embedded CLI SNMPv2/3, TACACS+, RADIUS Zero-touch turn up 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	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 + 1ft antenna (Dia. x Depth): 31cm x 13cm (12.2" x 4.3") ODU + 2ft antenna (Dia. x Depth): 65cm x 37cm (25.6" x 15.35")
Weight	ODU + 1ft. antenna: 9.9lbs. (4.5kg); ODU + 2ft. antenna: 20.7lbs (9.4kg)

Rev A1