

# EtherHaul™ 2200FX Datasheet



## Accelerating commercial network connectivity

### Great connectivity makes great networks

The EH-2200FX enhances network capacity by efficiently utilizing mmW frequencies, it boosts network performance and creates substantial CAPEX savings. Small and ultra cost-efficient, the carrier grade E-Band radio swiftly integrates with commercial environments. With Siklu's new powerful solution, capacity-rich connectivity becomes a must have to enable the always-on business needs.

#### Applications for a Wide Range of Applications

- Wireless Internet Service Providers (WISPs)
- Business Broadband
- Video Surveillance Connectivity
- Gigabit-To-The-Home (GTTH)
- LAN to LAN Connectivity

#### Brilliant Interference-Free Performance

Siklu's solution accelerates fiber-grade backhaul network expansion for capacity-hungry networks empowering them with up to 2 Gigabit of interference-free, robust quality connectivity. The optimal narrow beams, impressive reuse of spectrum resources, and high attenuation of the non-utilized 70/80 GHz band are leveraged to facilitate delivering excellent service.

#### High Scalability

The EH-2200FX provides scalability beyond predicted future potential to enable the swift and dynamic modification of business wireless networks of all sizes. Up to 2 Gigabit throughput and diminished latency is leveraged to create scalable future proof networks.

#### Exceptional Value per Megabit

Siklu's new ultra-high-capacity solution is offered with goal-oriented, agile, and scalable ROI to help resolve networking issues, and save substantial OPEX and network expansion expenditures.

#### Speedy & Seamless Growth

The carrier-grade radio incorporates multi-port ODU with PoE Out enabling extremely speedy and seamless deployment; QoS-capable, 2 Gigabit Ethernet service is swiftly deployed.

#### Less is More: small & cost-effective

Creating value-rich with:

- Less units per capacity are required for aggregation
- Less energy to power the tiny mighty radios
- Less pole attachment fees and permits

#### More is More: powerful & efficient

Accelerating powerful, dynamic, business and surveillance network aggregation with:

- More capacity to boost networks
- More efficiency and spectrum reuse
- More Mb per dollar

# EtherHaul 2200FX Specifications

Frequency, Duplexing	71-76 / 81-86 GHz, FDD
Modulation	BPSK1/BPSK2/QPSK/QAM16/QAM32
Adaptive rate	Hitless adaptive bandwidth, coding and modulation
Channel & Bandwidth	1000 Mbps@250MHz 2000 Mbps@500MHz
Throughput	1000Mbps, license keys upgradeable to 2000Mbps full-duplex
Link budget (BER=10 <sup>-6</sup> )	250MHz: 179dB (including 1ft antenna gain); 193dB (including 2ft antenna gain) 500MHz: 176dB (including 1ft antenna gain); 190dB (including 2ft antenna gain)
Interfaces	4x GE ports: 2x copper Rj45 + 2xSFP
Antenna	1ft (31cm): 43dBi antenna gain 2ft (65cm): 50dBi antenna gain
Power supply	PoE+ (IEEE 802.3at)
PoE-out	PoE-out 13W (IEEE 802.3af)
Ethernet features	IEEE 802.1d Transparent Bridging Smart Ethernet pipes – 4 parallel independent pipes connecting UI ports to radio
Management and provisioning	Web GUI (one click management of local & remote units), embedded CLI, SNMPv2/3, in-band, out-of-band Zero touch turn-up, TACACS+, RADIUS
Encryption	AES 128-bit and 256-bit
Topologies	Ring, daisy-chain, mesh
Conformance	ETSI EN 302 217, FCC 47 CFR part 101:2009, CE marked, EMC, safety
Environmental	Operating Temperature: -45° - +55°C (-49° - +131°F) Ingress Protection Rating: IP67
Dimensions	ODU only: 24.5x22.5x7cm (9.7x8.9x2") ODU + 1ft Antenna: (Dia. x Depth) 31x13cm (12.2x4.3") ODU + 2ft antenna: (Dia. x Depth) 65x37cm (25.6x15.35")
Weight	ODU + 1ft antenna: 4.5 kg (9.9 lbs.) ODU + 2ft antenna: 9.4 Kg (20.7 lbs.)
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