



EtherHaul™-1200F

The EtherHaul-1200F product provides wireless point-to-point Gigabit Ethernet connectivity operating at the 71-76/81-86GHz lightly licensed E-band spectrum using FDD technology.

Based on Siklu's revolutionary integrated-silicon technology, EtherHaul-1200F is a highly reliable, small, light-weight field proven solution.

EtherHaul-1200F is designed to meet the growing need of service providers and businesses for secure and reliable high-capacity carrier-grade radio connectivity. It offers Gigabit throughput, MEF-compliant networking and QoS. The product features enhanced Hitless Adaptive Bandwidth, Coding & Modulation for maximum spectral efficiency, and link availability.

EH1200F supports network synchronization and ring protection, and is optimized for mobile backhaul. EtherHaul1200F includes multiple GbE interfaces, supporting complex network topologies, such as daisy chain, ring and mesh. All in a small and light outdoor package that is fast and simple, and inexpensive to deploy.

Typical Applications

Mobile backhaul	Backhaul for mobile services ✓ 3G/4G/WiMAX/LTE/LTE+
Business services connectivity	✓ Leased line replacement ✓ LAN and fiber extension
LAN to LAN connectivity	High capacity and secure connectivity ✓ Healthcare ✓ Education ✓ Security ✓ Disaster recovery
Temporary network deployments	



Features & Benefits

- **Field proven technology and products**
- **Reduced TCO and fast ROI**
- **High Performance**
 - ✓ High throughput, low latency
 - ✓ Fiber-like functionality
- **Spectrum efficient**
 - ✓ Uncongested, inexpensive Eband license fees
 - ✓ Hitless Adaptive Bandwidth Coding and Modulation for high availability
 - ✓ High-gain, pencil-beam antenna
- **Advanced Layer-2 features:**
 - ✓ MEF-compliant QoS
 - ✓ VLAN, Provider Bridge
 - ✓ SLA assurance
- **All-outdoor small footprint**
 - ✓ Small and light
 - ✓ Quick and easy to install
- **Advanced AES encryption**
 - ✓ Secured transmission
- **Integrated Silicon solution**
- **Zero touch installation**



EtherHaul™-1200F General Specifications

Frequency and technology	<ul style="list-style-type: none"> FDD: 71-76/81-86GHz
Modulation	<ul style="list-style-type: none"> QPSK/QAM16/QAM64
Adaptive modulation	<ul style="list-style-type: none"> Hitless adaptive bandwidth, coding and modulation, boosting system gain by 25dB
Over-the-air throughput	<ul style="list-style-type: none"> Up to 1000Mbps (FD)
System gain (BER=10 ⁻⁶)	<ul style="list-style-type: none"> 182dB (including 1ft antennas gain) 196dB (including 2ft antennas gain)
Interfaces	<ul style="list-style-type: none"> 4xGbE: 2xcopper+ 2xfiber ports or 1xcopper+ 3xfiber
Antenna	<ul style="list-style-type: none"> Integrated 1ft (31cm), 43dBi External 2ft (65cm), 50dBi
Power	<ul style="list-style-type: none"> PoE+ (IEEE 802.3at) Wide-voltage interface: ±21-57VDC Power supply redundancy (PoE and DC input)
Ethernet features	<ul style="list-style-type: none"> 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)
Synchronization	<ul style="list-style-type: none"> IEEE 1588 TC Synchronous Ethernet ITU-T G.8261/8262/8264
Network topologies	<ul style="list-style-type: none"> 1+0, 1+1, 2+0, Ring, Daisy-chain and mesh
Encryption	<ul style="list-style-type: none"> AES 128-bit and 256-bit
Management	<ul style="list-style-type: none"> In-band, out-of-band, embedded CLI, web GUI, SNMPv2/3
Environmental	<ul style="list-style-type: none"> Operating temperature: -45° ÷ +55° C Ingress protection rating: IP67
Regulatory	<ul style="list-style-type: none"> ETSI EN 302 217-4, CE marked, EMC, safety
Dimensions	<ul style="list-style-type: none"> ODU (H x W x D) - 24.5 cm x 22.5 cm x 7 cm ODU + Antenna (Dia. x Depth) -31 cm x 13 cm
Weight	<ul style="list-style-type: none"> ODU + antenna (31 cm): 4 kg

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