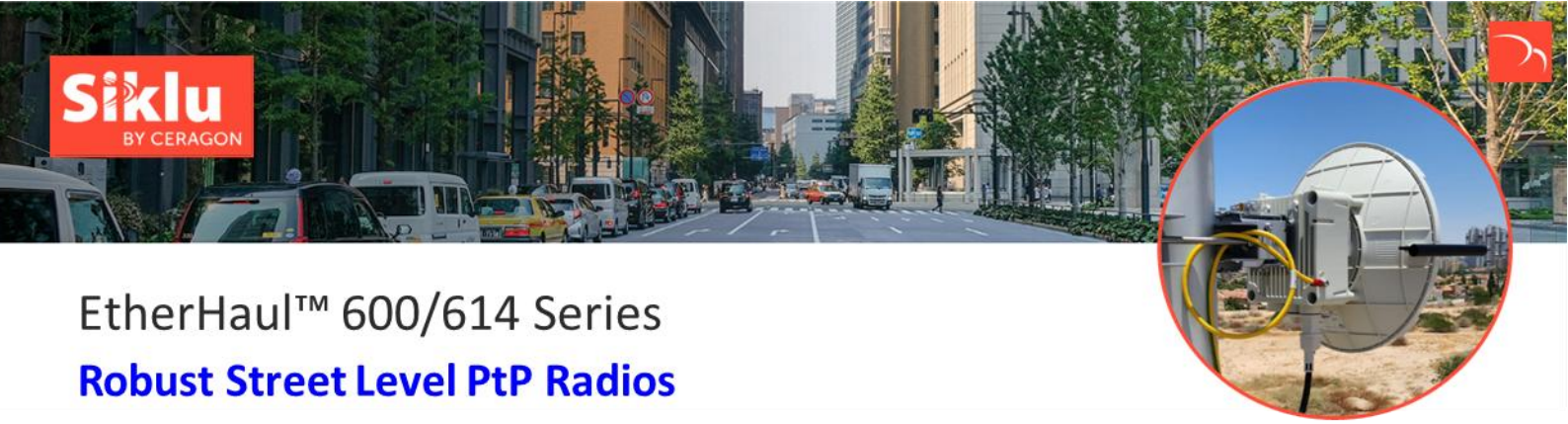

EtherHaul™ 600/614 Series

Robust Street Level PtP Radios

Gigabit Throughput on Every Street

The EtherHaul™-600 series delivers up to 1Gbps in a form factor that is small enough and rugged enough to be deployed at street level on poles and light fixtures. With the EH-614, Siklu-by-Ceragon offers a model that can tune in the lower and upper portions of the 60GHz V-Band, covering 11GHz of spectrum in a single product. When operating in the upper 60GHz portion of the band, distances can be achieved that are as much as 50% further than operation in the lower bands due to the absence of oxygen absorption.

Applications for a Wide Range of Vertical Markets

- Safe/Smart City Networks
- Wi-Fi Hotspot Backhaul
- Video Surveillance Connectivity
- Ad Hoc Networks

Interference-Free and Scalable Deployments

The unlicensed 60GHz V-band avoids typical interference through massive spectrum availability (up to 14GHz in the US and UK) and pencil-thin beams. This natural spatial separation enables aggressive frequency reuse across 14 full-capacity, non-overlapping channels, making it ideal for dense deployments.

Robust Carrier Class Construction

The all-weather IP-67-compliant sealed radio guarantees carrier–grade performance under even the harshest weather conditions. Designed to operate in temperatures from -45°C to +55°C, this product has been deployed around the world from Siberia to New-York. Carrier class specifications are backed up by an MTBF measured in decades not years.

Streamline Operations with Carrier Ethernet QOS

The EH-600 and EH-614 feature an MEF-compliant integrated Carrier Ethernet switch, streamlining network operations through configurable, service-aware QoS, bandwidth management, and OAM. By utilizing the built-in switch, customers eliminate the need for supplementary networking hardware and power supplies. Furthermore, the system supplements advanced Layer 2 functionalities by offering two PoE-out ports to directly power auxiliary edge devices, such as CCTV cameras.

Easiest Installation & Management

Virtually any installer can deploy the EH-600/614 in as little as 15 minutes using pre-loaded configurations. Flexible antenna options (0.5ft, 1ft, and 2ft) easily support varying deployment distances while maintaining a small form factor. Once deployed, management is streamlined via an intuitive web GUI, remote NOC activation, and integrated troubleshooting tools like a spectrum analyzer and iPerf load tester.

Unparalleled Security

As the only 60GHz radio series on the market featuring **256-bit AES encryption**, the EH-600/614 delivers unmatched data protection. Paired with the inherent security of mmWave narrow beams and complete immunity to jamming, it provides the industry's most secure fixed wireless connection in the unlicensed bands.

Field Proven Technology

EtherHaul™ is the world's best-selling millimeter-wave radio. Tens of thousands of units have been deployed and are performing reliably in stringent weather conditions all over the globe. The EH-600/614 incorporates the Siklu-by-Ceragon integrated all-silicon technology, which increases reliability while reducing size and cost. The result is a small form factor radio with a proven 90-year MTBF and an unbeatable price/throughput combination.

Exceptional Value

With minimal deployment costs and virtually no maintenance, the EH-600/614 series minimizes Total Cost of Ownership (TCO) and provides a Return On Investment (ROI) often measured in months, providing an unbeatable price/Mb. The EH-614's wide frequency support reduces TCO with less inventory while benefiting from extended range achievable with the upper 60GHz spectrum.

Eth Ports | ODU with 0.5ft Antenna | EXT ODU

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ETHERHAUL™ – 600/614 Specifications

Compact 60GHz Field-Proven PtP Gigabit Wireless Bridge

Topologies	Ring, Daisy-Chain, Mesh, 1+1 Multiband
Frequency / Duplexing	57-66GHz (EH-600TX) / 57-68GHz (EH-614TX), TDD
Channel Bandwidth, Modulation & Adaptive Coding	125/250/500MHz wide, 11/14 non-overlapping channels, QPSK ÷ QAM64; Up to 5 level of hitless adaptive bandwidth, coding, and modulation - boost gain by up to 25dB
Line Rate / Throughput	500Mbbps Aggregated throughput out-of-the box 1Gbps Aggregated throughput with a capacity license key
System Gain	65/90 (channel bandwidth = 500MHz, maximum capacity / minimum modulation)
Antenna Options	0.5 ft. (16 cm) - 36dBi antenna gain; 1 ft. (31cm) – 43dBi antenna gain ; 2 ft. (65cm) – 48dBi antenna gain
Interfaces	3xGbE copper ports
Ethernet Features	IEEE 802.1d transparent bridging, VLAN & VLAN stacking, 4K VLANs MEF 9, 14 and 21 compliant Ethernet services Smart Pipes Transparent Ports Mode Link aggregation: LAG and LACP (IEEE 802.3ad) Ethernet Ring Protection Switching: ITU-T G.8032 ERPS Link state propagation, 16KB Jumbo frames, Configurable QOS-aware forwarding, 8 level H-QoS with multi mapping options: L2: 802.1p, VLAN id., L2½: MPLS EXP, L3: DSCP
Security	AES 128-bit and 256-bit
Multiband	1+1 Extended range with the ExtendMM™ license key
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 (FTL); iPerf TCP/UDP payload delivery tester; Integrated spectrum analyzer.
PoE-Out	Port 2 and Port 3 (IEEE 802.3at). Config options: 26W + 26W / 40W + 13W / 52W + 0W
Power Supply	PoE+ (IEEE 802.3at), 26W without PoE-Out; up to 78W with PoE-Out
Conformance	Radio: FCC Part 15.255, ETSI EN 302 217-3 & UK IR 2078 & IR 2000. 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: 6” x 6.5” x 3.5” (16.5 x 16.5 x 10cm) ODU + 1ft antenna (Dia x Depth): 12.2” x 4.3” (31 x 13cm)
Weight	ODU + 0.5ft antenna: 3.9 lbs. (1.8kg); ODU + 1ft antenna: 6.6 lbs. (3kg) ODU + 2ft antenna: 25.6lbs (11.6kg)

Ordering Information

OPS P/N	Part Number	Description
VEHP262	EH-600TX-ODU-PoE	EtherHaul™ 600TX PoE ODU **with 0.5 ft. detachable antenna**; Ports: 3xcopper; Power: PoE; with 500Mbps upgradeable to 1G; 11ch
VEHP263	EH-614TX-ODU-PoE	EtherHaul™ 614TX PoE ODU extended range **with 0.5 ft. detachable antenna**; Ports: 3xcopper; Power: PoE; with 500Mbps upgradeable to 1G; 14ch
VEHP274	EH-600TX-ODU-3C-**EXT**-POE	EtherHaul™ 600TX PoE ODU with **antenna port**; Ports: 3xcopper; Power: PoE; with 500Mbps upgradeable to 1G; 11ch
VEHP334	EH-614TX-ODU-**EXT**-POE	EtherHaul™ 614TX PoE ODU with **antenna port**; Ports: 3xcopper; Power: PoE; with 500Mbps upgradeable to 1G; 14ch

Max. ranges. 0.5ft.: 800m (2,625ft.) | 1ft.: 1.4km (4,593ft.) | 2ft. 2.3km (7,545ft.). Use Ceragon’s **link budget calculator** for precise calculations:

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