

# Siklu REFERENCE GUIDE



## Why Siklu Millimeter Wave?

- Recognized leader and innovator in mmWave technology since 2011
- ROI - **3 to 4 times less expensive than trenching fiber** and 1/10 of the time to revenue
- Outstanding product quality and support
- Economically priced carrier-class equipment

## Siklu's Key Selling Points

- Complete mmWave wireless offering - **PtP and PtMP**
- Fiber-like wireless - up to 10Gbps full duplex
- 60GHz, 70/80GHz bands - **narrow beams, no Interference**
- Proven reliability- >90 year MTBF
- Adaptive Modulation overcomes weather-related downtime
- Extremely high reuse factor even in dense urban areas

## mmWave Applications

- Video Surveillance Connectivity
- Business / Residential 5G Fixed Wireless
- Smart Cities and Wi-Fi Backhaul
- Macro and Small Cell Backhaul
- Fiber extension / redundancy

### Point-to-Multipoint Street-Level / Rooftops



- License exempt 60GHz (V-Band)
- 100Mbps - 1.8Gbps aggregated capacity
- Range: up to 985ft.
- Beam-forming with automatic alignment
- Integrated 90° sector scanning antennas

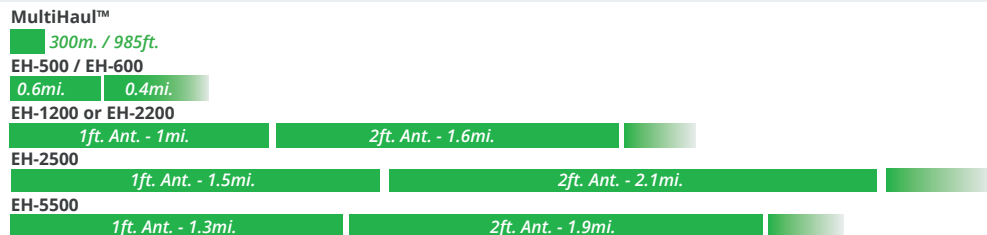
### Point-to-Point Street-Level / Rooftops



- License exempt 57-71\*\*GHz (V-Band)
- 100Mbps - 1Gbps aggregated capacity
- Range: up to 0.6 miles
- 11 non-overlapping full-capacity channels
- Minimal footprint with integrated antenna

## Distance Guide

**99.99% availability; Chicago area (rain zone K) at half capacity**  
For performance at other locations, visit: [www.siklu.com/tools/etherhaul\\_LBC](http://www.siklu.com/tools/etherhaul_LBC)



### Point-to-Point Rooftops



- Lightly licensed 70/80GHz (E-Band)
- 100Mbps - 10Gbps capacities
- Range: > 2 miles
- Up to 18 non-overlapping channels
- Available with 1ft/2ft antennas

## Product Matrix

Product	Band	Configuration	Installation	Antennas	Base rate	Max rate w/upgrade*	Gigabit ports	Operational Power [W]	PoE out [W]	Networking features
BU: MH-B100	60GHz License exempt	PtMP	Street level	Integrated with +90° coverage	500Mbps TDD	1.8Gbps TDD	2x 1G base T + 1xSFP	10	26	<ul style="list-style-type: none"> <li>• IEEE 802.1d transparent bridging</li> <li>• VLAN &amp; VLAN stacking</li> <li>• 128 bit AES encryption</li> </ul>
TU: MH-T200	60GHz License exempt	PtMP	Street level		100Mbps TDD	1Gbps TDD	1 or 3x 1G base T	10	26+13	
EH-500TX	60GHz License exempt	PtP	Street level	Integrated - 36dBi	100Mbps TDD	200Mbps TDD	3x 1G base T	26	2x26 / 40+13	<ul style="list-style-type: none"> <li>• IEEE 802.1d transparent bridging.</li> <li>• VLAN &amp; VLAN stacking.</li> <li>• Smart Pipes Port Mode or LAG with LACP.</li> <li>• G.8032 Ethernet Ring Protection.</li> <li>• Link state propagation.</li> <li>• 16KB Jumbo frames.</li> <li>• Configurable QoS-aware forwarding.</li> <li>• 8 level H-QoS with multi mapping options: L2: 802.1p, VLAN id., L2.5:MPLS EXP, L3: DSCP.</li> <li>• Ethernet OAM and CFM.</li> <li>• 128/256-bit AES encryption.</li> <li>• Timing: SyncE &amp; 1588v2 available with T and F series (not TX/FX/FD).</li> </ul>
EH-600TX	60GHz License exempt	PtP	Street level		500Mbps TDD	1Gbps TDD	3x 1G base T	26	2x26 / 40+13	
EH-1200TX	70GHz Lightly licensed	PtP	Rooftops	1 ft. - 43dBi 2 ft. - 50dBi	700Mbps TDD	1Gbps TDD	2x 1G base T + 2x 1G SFP	26	26	
EH-1200FX	70/80GHz Lightly licensed	PtP	Rooftops		1Gbps FDD	1Gbps FDD	2x 1G base T	40	13	
EH-2200FX	70/80GHz Lightly licensed	PtP	Rooftops		1Gbps FDD	2Gbps FDD	2x 1G base T + 2x 1G SFP	40	13	
EH-2500FX	70/80GHz Lightly licensed	PtP	Rooftops		1Gbps FDD	2Gbps FDD	2x 1G base T + 2x 1G SFP	45	13	
EH-5500FD	70/80GHz Lightly licensed	PtP	Rooftops		2Gbps FDD	5 or ^10Gbps FDD	1x 10G SFP+	30	None	Transparent pipe mode with flow control

PtMP MultiHaul™: BU - Base Unit; TU - Terminal Unit

\*Max rate is subject to software license  
\*\*64-71GHz band: recently released by FCC, pending approval

^10Gbps: 2+0 radios with OMT and single antenna  
FDD - Full Duplex | TDD - Aggregated