

# Product Reference Guide

## Why Millimeter Wave?

- Fiber-like speeds up to 10Gbps full duplex
- 60GHz, 70/80GHz bands – narrow beams, virtually no interference
- Massive amounts of available spectrum
- Lightly licensed and license exempt bands (country dependent)
- ROI - 3 to 4 times less expensive than trenching fiber and 1/10 of the time to revenue
- Extremely high reuse factor even in dense urban areas

## Siklu's Key Selling Points

- Complete mmWave wireless offering - core to edge, PtP, PtMP and L2 SDN mesh
- Cloud-based network planning tool for automatic design of small to large networks, up to thousands of nodes.
- Leading performance and range
- Recognized leader and innovator in mmWave technology since 2011
- Outstanding product quality and remote/on-site support

## mmWave Applications

- Business / Residential 5G Fixed Wireless Access
- Surveillance Connectivity
- Smart Cities
- Wi-Fi Backhaul
- Fiber Extension / Redundancy
- Macro and Small Cell Backhaul

PtMP TU, V-Band, 1Gbps

Mesh Node, V-Band, +15Gbps

Fiber

PtP E/V-Band 1-10Gbps FD

PtMP



## Distance Guide

**99.95%** availability; Chicago area (rain zone K) at half capacity For performance at other locations, visit: [lbc.siklu.com](http://lbc.siklu.com)

### MultiHaul™

**1150ft / 350m**

### MultiHaul™ TG

**1470ft / 450m**

### EH-600 / EH-614 / EH-500

**0.5mi/0.8km - 0.56mi/0.9km - 0.6mi/1km**

### EH-7X0 / EH-1200 / EH-2200

**1ft. Ant 1mi/1.6km 2ft - Ant 1.6mi/2.6km**

### EH-8010

**1ft. Ant 1.3mi/2km 2ft - Ant 1.9mi/3km - ExtendMM™ 6.2mi/10Km**

### EH-2500

**1ft. Ant 1.5mi/2.4km - 2ft. Ant 2.1mi / 3.3km - ExtendMM™ 9.3mi / 15Km**

## Point-to-Point – Rooftops / Towers

### EtherHaul™ Kilo Series

- Lightly licensed 70/80GHz (E-Band)
- 2.1mi / 3.3km - 9.3mi / 15Kmw with ExtendMM™\*
- Full duplex capacity: 100Mbps to 10Gbps\*
- 2 to 32 non-overlapping channels
- Available with 0.5ft./1ft./2ft. Antennas, single or dual-bands



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

### EtherHaul™ Hundred Series

- License exempt 60GHz (V-Band)
- TDD capacity: 100Mbps to 1Gbps \*
- Range: up to 0.6 miles / 1 km
- Up to 14 non-overlapping full-capacity channels
- Small footprint
- ODU + 0.5ft antenna: 6.5" x 6.5" x 3.9" (16.5 x 16.5 x 10cm)



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

### MultiHaul™ Series

- License exempt 60GHz (V-Band)
- TDD capacity: 100Mbps to 1.8Gbps\*
- Range: up to 1150 feet /350 meters
- 90° sector beam-forming antennas with self alignment
- Terminal Unit with automatic and/or IP-less provisioning
- cTU, the smallest mmWave radio in the industry: 6.5 x 3.1 x 1 in. (16.5 x 8 x 2.5 cm)



## L2 SDN Mesh – Street-Level / Rooftops

### MultiHaul™ TG Series

- Layer 2 Self-Organizing (SON) with SDN
- Auto alignment with no setup
- Up to 16 Gbps TDD capacity
- Range: up to 1470 feet /450 meters



# Product Matrix

Product	Band	Configuration	Installation	Antennas	Base rate	Max rate*	Gigabit ports	Power [W]	PoE-out [W]	Networking features			
MH-B100 (BU)	60GHz License-exempt	Point to Multi Point	Street level / Rooftop	Integrated with 90° scanning	500Mbps TDD	1.8Gbps TDD	2x 1G base-T + 1xSFP	15	26	VLAN stacking Security: SSID/PW, 128-bit AES encryption, managed ID TU Provisioning: auto- and /or IP-less-User / traffic isolation; Port lock / unlock 802.1x LLDP - Link Layer Discovery Protocol			
MH-T200-CNN (TU) MH-T201-CNN (cTU)					100Mbps TDD	1Gbps TDD	1x 1G base-T	15	None				
MH-T200-CCS (TU)					100Mbps TDD	1Gbps TDD	2x 1G base-T + 1xSFP	15	26				
MH-T200-CCC (TU)					100Mbps TDD	1Gbps TDD	3x 1G base-T	15	26+13				
MPL-400-CCC		Point to Point		1.8Gbps TDD (up to 1Gbps up/down)	B: 2x1G Base-T & 1xSFP T: 3x 1G Base-T	15 / radio	B: 26 / T: 26+13						
MPL-400-CNN				1.8Gbps TDD (up to 1Gbps up/down)	B: 2x1G Base-T & 1xSFP T: 1x 1G Base-T	15 / radio	B: 26 / T: None						
MPL-400-CCS				1.8Gbps TDD (up to 1Gbps up/down)	B: 2x 1G Base-T & 1xSFP T: 2x 1G Base-T & 1xSFP	15 / radio	B: 26 / T: 26						
MH-TG-T265 (TU)		Point to Multi Point, L2 SDN mesh		1Gbps	1x 2.5/1GbaseT, 1x 1G base-T, 1xSFP+	35	55	IEEE 802.1d transparent bridging, VLAN & VLAN stacking. Security:SSID/PW,128-bitAESencryption , Integrated TU management (IP-less).					
MH-TG-N366 (node)				Integrated, with 360° scanning (4x90°)	3800Gbps TDD / sector 16Gbps / node	1x 10/5/2.5/1GbaseT, 1x 1G base-T, 1xSFP+	55		35				
EH-500TX		57-66GHz License-exempt		Point to Point	Integrated - 36dBi	100Mbps TDD	200Mbps TDD	3x 1G base-T	26		Configurable*: 2x26 or 1x40 & 1x13 or 1x52	26*	IEEE 802.1d transparent bridging, VLAN & VLAN stacking. Jumbo frames. Configurable QOS-aware forwarding. 8 level QoS with multi mapping options: L2 (802.1p) or L3 (DSCP codes). Link state propagation. LLDP - Link Layer Discovery Protocol. ExtendMM™ multi-band * Encryption: AES*.
EH-600TX	500Mbps TDD		1Gbps TDD										
EH-614TX	57-68GHz License-exempt	500Mbps TDD	1Gbps TDD										
EH-700TX		100Mbps TDD	200Mbps TDD										
EH-710TX	70GHz Lightly licensed	700Mbps TDD	1Gbps TDD		2x1G base-T+2x1GSFP	40	13*						
EH-1200TX		700Mbps TDD	1Gbps TDD		2x 1G base-T	40	13*						
EH-1200FX	70/80GHz Lightly licensed	Rooftop / Tower	0.5ft. - 38dBi 1ft. - 43dBi 2ft. - 50dBi		1Gbps FD	1Gbps FD	2x 1G base-T	40		13*			
EH-2200FX					1Gbps FD	2Gbps FD	2x 1G base-T + 2x 1G SFP	45		13*			
EH-2500FX					1Gbps FD	2Gbps FD	1x combo 10GSFP+/base-T + 1x 1G base-T	50		None			
EH-8010FX					2Gbps FD	10Gbps FD	1x combo 10GSFP+/base-T + 1x 1G base-T	50		None			

MultiHaul™: Node – L2 SDN mesh unit; BU – Base Unit; TU - Terminal Unit | FD - Full Duplex | TDD – Time Division Duplexing | Power: PoE-out power to be added, when in use.

\*Feature subject to software license; or Maximum rate subject to software license.

## About Siklu:

Siklu delivers a complete multi-gigabit fiber-like wireless solution that starts with planning and covers access and aggregation in urban, suburban and rural settings. Operating in the millimeter wave bands, its wireless solutions are used by leading service providers and system integrators to provide gigabit broadband, 5G fixed wireless and smart/safe city connectivity. Tens of thousands of carrier-grade systems are successfully deployed and delivering interference-free performance world-wide. Easily installed on street-fixtures or rooftops, the price-competitive radios have proved to be ideal for networks requiring fast and simple deployment of secure, fiber-like and future-proof connectivity.

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