

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

Point-to-Point – Rooftops / Towers

EtherHaul™ Kilo Series

- Lightly licensed 70/80GHz (E-Band)
- Integrated 1-click ExtendMM™* triples the distance and maintains connectivity during heavy rains
- Full duplex capacity: 100Mbps to 10Gbps*
- Up 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*
- 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

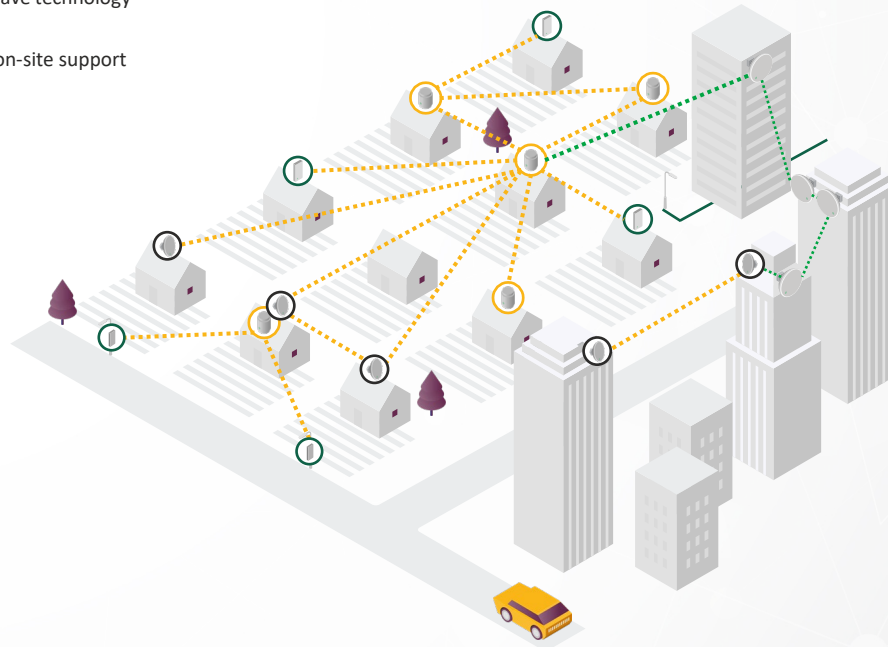
- License exempt 60GHz (V-Band)
- TDD capacity: 100Mbps to 1.8Gbps*
- 90° sector beam-forming antennas with self alignment
- Terminal Unit with automatic and/or IP-less provisioning
- cTU, the smallest mmWave radio in the industry: 6.5 x 3.1 x 1 in. (16.5 x 8 x 2.5 cm)



L2 SDN Mesh – Street-Level / Rooftops

MultiHaul™ TG Series

- Layer 2 Software Defined NW (SDN) mesh
- Auto alignment with no setup
- Up to 3.8 / 16 Gbps TDD capacity (link / node)
- Long range options with dish antennas



- Long Range TU
- PtMP TU, V-Band, 1Gbps
- Mesh Node, V-Band, +15Gbps
- Fiber
- PtP E/V-Band 1-10Gbps FD
- PtMP

Product Matrix

Product (link)	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	IEEE 802.1d transparent bridging, VLAN & 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 (link)		Point to Point			1.8Gbps TDD aggregated (up to 1Gbps each direction)	BU: 2x1GBase-T & 1xSFP TU: 3x 1G Base-T	15 / radio	BU: 26 / TU: 26+13				
MPL-400-CNN (link)					1.8Gbps TDD aggregated (up to 1Gbps each direction)	BU: 2x1GBase-T & 1xSFP TU: 1x 1GBase-T	15 / radio	BU: 26 / TU: None				
MPL-400-CCS (link)					1.8Gbps TDD aggregated (up to 1Gbps each direction)	BU: 2x 1G Base-T & 1xSFP TU: 2x 1G Base-T & 1xSFP	15 / radio	BU: 26 / TU: 26				
MH-T280 (LR TU) (Terragraph cert.)	57-66GHz License-exempt	PtP, PtMP, L2 SDN mesh	Street level / Rooftop	36dBi (.5ft), 42dBi (1ft), 50dBi (2ft)	3800Gbps TDD		1x 5/2.5/1G Base-T, 1x 1G Base-T, 1x SFP+	25	65	IEEE 802.1d transparent bridging, VLAN & VLAN stacking.		
MH-T265 (TU) (Terragraph cert.)		Point to Multi Point, L2 SDN mesh		Integrated, with 360° scanning (4x90°)	3800Gbps TDD		1x 2.5/1G Base-T, 1x 1G Base-T, 1x SFP+	35	55	L2 SDN Mesh.		
MH-N366 (node) (Terragraph cert.)				3800Gbps TDD / sector (4x90°) 16Gbps / node	1x 10/5/2.5/1GBase-T, 1x 1G Base-T, 1x SFP+	55	35	Security:SSID/PW,128-bitAESencryption , Integrated TU management (IP-less TU).				
EH-600T/TX EH-614T/TX	57-68GHz License-exempt	Point to Point	Street level / Rooftop	Integrated - 36dBi (0.5ft)	500Mbps TDD	1Gbps TDD	3x 1G Base-T	26	Configurable*: 2x26 or 1x40 & 1x13 or 1x52	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 *		
EH-710T/TX	70GHz Licensed / Lightly-licensed			38dBi (.5ft), 43dBi (1ft), 46dBi (1ft), 50dBi (2ft)	700Mbps TDD	1Gbps TDD					2x 1GBase-T+2x 1GSFP	26*
EH-1200T/TX					70/80GHz Licensed / Lightly-licensed	Rooftop / Tower					1Gbps FD	1Gbps FD
EH-2500F/FX	1Gbps FD		2Gbps FD	2x 1G Base-T + 2x 1G SFP			45	13*	Timing*: SyncE & 1588v2 available with T and F series (not TX/FX). G.8032 Ethernet Ring Protection*.			
EH-8010FX	2Gbps FD		10Gbps FD	1x combo 10G SFP+/ Base-T + 1x 1G Base-T			50	None	Not applicable to EH-8010: Ethernet OAM and CFM*. Smart Pipes Port Mode or LAG with LACP.			

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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