REFERENCE GUIDE

Siklu

WALKER AND ASSOCIATES INC

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 to PtMP
- 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-Multipoint

Street-Level / Rooftops

MultiHaul™ Series

- License exempt 60GHz (V-Band)
- Aggregated capacity: 100Mbps to 1.8Gbps
- Range: up to 1310 feet /400 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)

Point-to-Point

Street-Level / Rooftops

EtherHaul™ Hundred Series

- License exempt 60GHz (V-Band)
- Aggregated 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-Point

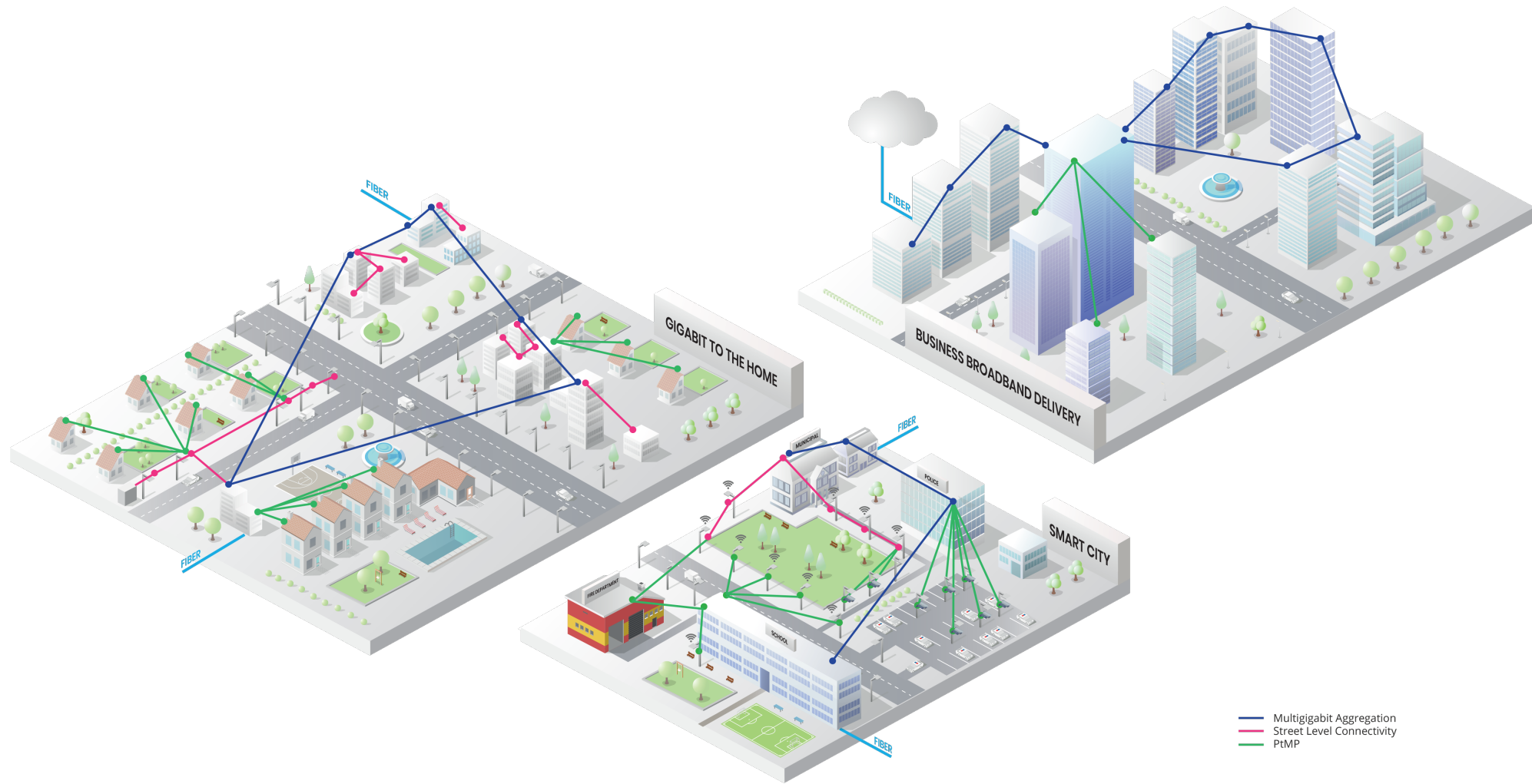### Rooftops / Towers

EtherHaul™ Kilo Series

- Lightly licensed 70/80GHz (E-Band)
- Range: > 2.2 miles / 3.2 km ; 6mi / 10Km with ExtendMM*
- Full duplex capacity: 100Mbps to 10Gbps
- 2 to 32 non-overlapping channels
- Available with 0.5ft./1ft./2ft. antennas

Distance Guide

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

MultiHaul™
- 1150ft. / 350m

EH-600 / EH-614 / EH-500
- .5mi / .8km
- .56mi / .9km
- .6mi / 1km

EH-7X0 / EH-1200 / EH-2200
- 1ft. Ant 1mi / 1.6km
- 2ft. Ant 1.6mi / 2.6km

EH-5500 / 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

Product Matrix

Product	Band	Configura-tion	Installation	Antennas	Base rate	Max rate w/upgrade*	Gigabit ports	Operational power [W]	PoE out [W]	Networking features
MH-B100 (BU)	60GHz License-exempt	Point to Multi Point	Street level / Rooftops	Integrated with 90° coverage	500Mbps TDD	1.8Gbps TDD	2x 1G base-T + 1xSFP	10	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-CCC (TU)					100Mbps TDD	1Gbps TDD	3x 1G base-T	10	26+13	
MH-T200-CNN (TU) MH-T201-CNN (cTU)					100Mbps TDD	1Gbps TDD	1x 1G base-T	10	None	
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	• 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. • Encryption: AES*.
EH-600TX	57-66GHz License-exempt				500Mbps TDD	1Gbps TDD				
EH-614TX	57-68GHz License-exempt				500Mbps TDD					
EH-700TX	70GHz Lightly licensed				100Mbps TDD	200Mbps TDD				
EH-710TX	70GHz Lightly licensed				700Mbps TDD	1Gbps TDD				
EH-1200TX	70GHz Lightly licensed				700Mbps TDD		2x 1G base-T + 2x 1G SFP		26*	
EH-1200FX	70/80GHz Lightly licensed		Rooftops/ Towers	0.5ft. - 38dBi 1ft. - 43dBi 2ft. - 50dBi	1Gbps FDD	1Gbps FDD	2x 1G base-T	40	13*	Not applicable to EH-8010: • ExtendMM*, G.8032 Ethernet Ring Protection*. • Ethernet OAM and CFM*. • Smart Pipes Port Mode or LAG with LACP. • Timing*: SyncE & 1588v2 available with T and F series (not TX/FX/FD).
EH-2200FX	70/80GHz Lightly licensed				1Gbps FDD	2Gbps FDD	2x 1G base-T + 2x 1G SFP	40	13*	
EH-2500FX	70/80GHz Lightly licensed				1Gbps FDD			45	13*	
EH-8010FX	70/80GHz Lightly licensed				2Gbps FDD	10Gbps FDD	1x combo 10G SFP+/ base-T + 1x 1G base-T	50	None	
EH-5500FD	70/80GHz Lightly licensed				2Gbps FDD	5Gbps FDD	1x 10G SFP+	45	None	• Transparent pipe mode with flow control

PtMP MultiHaul™: BU – Base Unit; TU - Terminal Unit   *Max rate or feature subject to software license
FDD - Full Duplex | **TDD** - Aggregated

ED_B0

GIGABIT TO THE HOME

BUSINESS BROADBAND DELIVERY

SMART CITY

FIBER

MUNICIPAL

POLICE

FIRE DEPARTMENT

SCHOOL

— Multigigabit Aggregation
— Street Level Connectivity
— PtMP

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.

Contact us:

Americas +1 (201) 267-9597
ROW +972 3 9214015
hello@siklu.com
www.siklu.com

info@walkerfirst.com
walkerfirst.com