



Short range version with 1 ft. antenna



Long range version with 2 ft. antenna

Product Summary

Solectek's SkyWay-EB Series wireless systems provide the ultimate Gigabit backbone links for most demanding applications for carriers and enterprises. The products will operate either in 70 GHz licensed bands or 60 GHz unlicensed bands and have different antenna options for various link distance requirements.

The SkyWay-EB Series represents a breakthrough in long range gigabit links by extending the maximum link distance to 10 km.

Features & Advantages

- Full-duplex Gigabit Ethernet—1.25 Gbps
- Long Link Distance—up to 6.8 miles (10.85 km)
- Highly secure, "pencil-beam" antennas—less than 1 deg
- Interference free operation.
- High density deployment without co-location problems
- Extremely low latency—measured in nanoseconds
- All-in-one outdoor, compact design—no IDU required.
- Extreme reliability—up to 99.999%
- IP66 Outdoor Rate Enclosure
- Easy antenna alignment using voltmeter RSSI test points.

Applications

- Enterprise LAN Extension between sites
- Last mile access to buildings—extend high speed services to commercial buildings without fiber.
- Carrier Backhaul from mobile base station
- ISP Backbone Ring Formation
- Primary/redundant link for mission critical link.
- Metro fiber extension
- Temporary, disaster recovery links.

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Specifications

Solectek SkyWay-EB Series Gigabit Backbone Link

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70 GHz Licensed Band Links		
	SkyWay-EB-70SR	SkyWay-EB-70LR
Data Rate	1.25 Gbps, Full-Duplex	
Output Power	17 dBm (50mW) max	
Frequency Range	71-76 GHz	
Bandwidth	2200 MHz	
Center Frequency	72.1 GHz (type A) 74.9 GHz (type B)	
Modulation	ASK	
Latency	23 nanoseconds	
Management	RS-485, PC application program	
Interface	1000Base-SX with LC connectors	
antenna gain	41 dBi (1 ft diameter)	48 dBi (2 ft diameter)
antenna beamwidth	0.9 deg	0.5 deg
Link Distance	clear max: 2.45km 99.9%: 1.15 - 1.40km 99.99%: 0.7 - 0.9km 99.999%: 0.5 - 0.55km	clear max: 10.85km 99.9%: 2.55 - 3.35km 99.99%: 1.4 - 2.05km 99.999%: 0.85 - 1.05km
Minimum Link Distance	100m	700m
Operating Temperature	-40 to 70°C	
Size: Radio Only	18 x 18 x 10 (cm)	
Size with Antenna	34 x 34 x 22 (cm)	62 x 62 x 49 (cm)
Weight	13.2 lbs	37.5 lbs

60 GHz Unlicensed Band Links		
	SkyWay-EB-60SR	SkyWay-EB-60LR
Data Rate	1.25 Gbps, Full-Duplex	
Output Power	10 dBm (10mW) max	
Frequency Range	57.65 - 59.85 GHz (Type A) 61.15 - 63.35 GHz (Type B)	
Bandwidth	2200 MHz	
Center Frequency	58.75 GHz (Type A), 62.25 GHz (Type B)	
Modulation	ASK	
Latency	23 nanoseconds	
Management	RS-485, PC application program	
Interface	1000Base-SX with LC connectors	
antenna gain	41 dBi (1 ft diameter)	48 dBi (2 ft diameter)
antenna beamwidth	0.9 deg	0.5 deg
Link Distance	clear max: 1.10km 99.9%: 0.85 - 0.90km 99.99%: 0.65 - 0.75km 99.999%: 0.45 - 0.55km	clear max: 1.65km 99.9%: 1.25 - 1.40km 99.99%: 0.90 - 1.10km 99.999%: 0.65 - 0.75km
Minimum Link Distance	200m	450m
Operating Temperature	-40 to 70°C	
Size: Radio Only	18 x 18 x 10 (cm)	
Size with Antenna	34 x 34 x 22 (cm)	62 x 62 x 49 (cm)
Weight	13.2 lbs	37.5 lbs

Note: The ranges specified are for typical ranges in the Eastern and Western regions of the US. Please contact Solectek sales for link distance figures in your region.

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