The SkyWay-EB-HP is Solectek's third-generation ULL PTP link operating in the 70/80GHz frequency band. It features the same 10ns latency per pass but now with a higher Tx output power of 25dBm at antenna port for more link budget and longer distances.

The radios can be managed via built-in management module in a least intrusive manner so that the management activities do not add any latency to the data transport. The management features include monitoring of RSS, polarization (V/H) status and internal temperature. Alarms can be set up for abnormal operating patterns such as low RSS, high temperature, receive loss of lock, and loss of signal at SFP port. IP address setups allow for remote management over web GUI.

The enclosure is designed in a way to allow easy access and field replacement of SFP modules.

SYSTEM SPECIFICATIONS

Frequency Range (GHz)	71-76 GHz (Low) and 81-86 GHz (High)
Latency	10 ns per pass
Channel sizes (MHz)	2 x 2 GHz
LO Frequency	73 GHz and 83 GHz, typical – factory adjustable upon request
Modulation	ASK
RF / Baseband VSWR	2:1 typ.
Tx Radio Output	+25 dBm typ.
Noise Figure	10dB typ.
Rx Sensitivity	-55 dBm
Data Rate	1Gbps Full Duplex
RF Port	WR-10
Signal Interface	MMF/SMF LC fiber SFP
Power Interface	POE 802.3at or passive, or DC connector (48V DC)
Operating Temperature	802.3at POE or 12V DC
Size	232x202x112mm (Radio Only), 328x328x265mm (1FT ant), 620x620x265mm (2FT)
Weight	6.2kg (13.6 lbs) with 1FT ant, 12.2kg (26.9 lbs) with 2FT ant

MANAGEMENT

System parameters	IP address configuration and monitoring, temperature monitoring
RF parameters	Tx power On/Off, RSS level monitoring, antenna polarization (V/H) monitoring
Alarm	RSS threshold, temperature threshold, Receive lock, SFP signal loss
Loopback Test	Future hardware release
Other features	Software upgrade, configuration backup, alarm/event logs