LHG 5

The Light Head Grid (LHG) is a compact and light 5 GHz 802.11 a/n wireless device with an integrated dual polarization 24.5 dBi grid antenna at a revolutionary price. It is perfect for point to point links or for use as a CPE at longer distances and supports Nv2 TDMA protocol.

The grid design ensures protection against wind, and the fact that the antenna element is built into the wireless unit means no loss on cables.





The device comes disassembled for compact shipping, but is very easy to assemble and includes a simple to use grounding attachment point. The package also contains a small adapter for tilting the antenna five degrees from the original position.



Specifications

Product code	RBLHG-5nD (International) RBLHG-5nD-US (USA)	
CPU nominal frequency	600 MHz	
Size of RAM	64 MB	
Storage	16 MB Flash	
10/100 Ethernet ports	1	
Wireless	Built-in 5 GHz 802.11a/n, dual-chain	
Wireless regulations	Specific frequency range can be limited by country regulations	
Wireless chip model	AR9344	
Operating frequency	International	5150 - 5875 MHz
	USA	5170 - 5250 MHz 5725 - 5835 MHz
Antenna gain	24.5 +/- 0.5 dBi	
Antenna beam width	7°	
Cross polar	15 dBi	
Port to port isolation	20 dB	
Front to back ratio	25 dB	
Return loss	10 dB	
VSWR	1.925:1	
PoE in	Yes	
Supported input voltage	11 V - 30 V (passive PoE)	
Wind loading	186N @ 205 km/h	
Operating temperature	-40 to 70° C	
Operating humidity	5 to 95% noncondensing	
Shock and vibration	ETSI300-019-1.4	
ETSI specification	EN 302 326 DN2	
Dimensions	Ø 391 x 222 mm; package 450 x 450 x 145 mm	
Weight	Unit: 560 g; package: 1.98 kg	
Max Power consumption	6 W	

Included



24V 0.38A Power adapter



PoE injector



2x metal rings



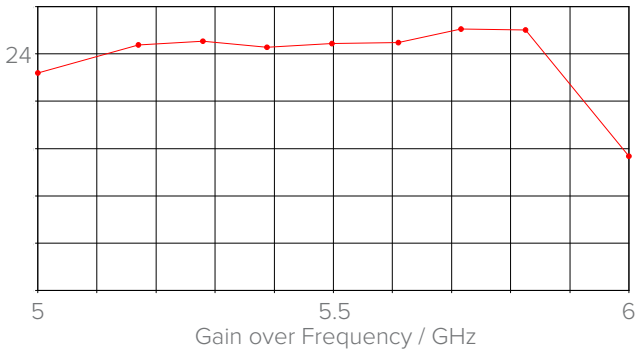
K-LHG kit

Wireless specifications

RATE	Tx (dBm)	Rx (dBm)
6MBit/s	25	-96
54MBit/s	20	-80
MCS0	25	-96
MCS7	19	-75

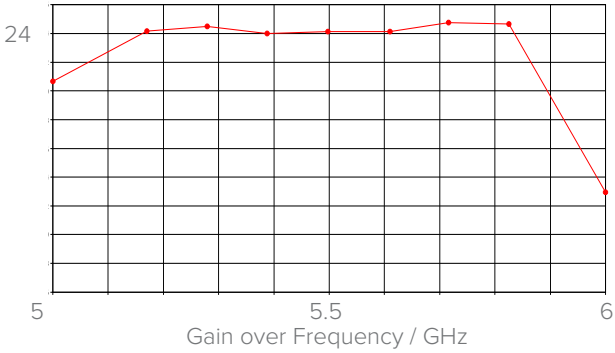
Antenna specifications

Horizontal polarization

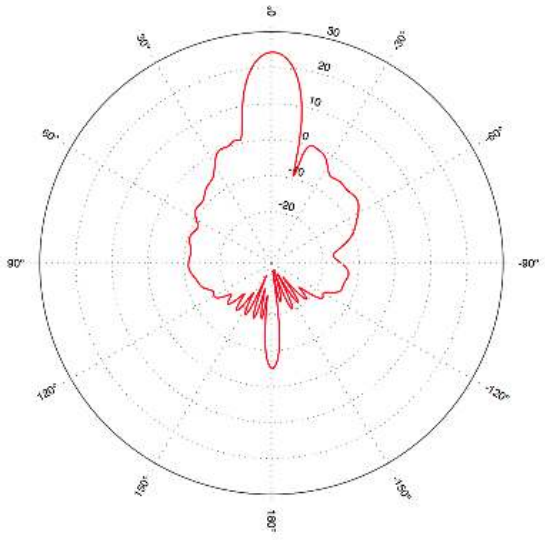


Gain over Frequency / GHz

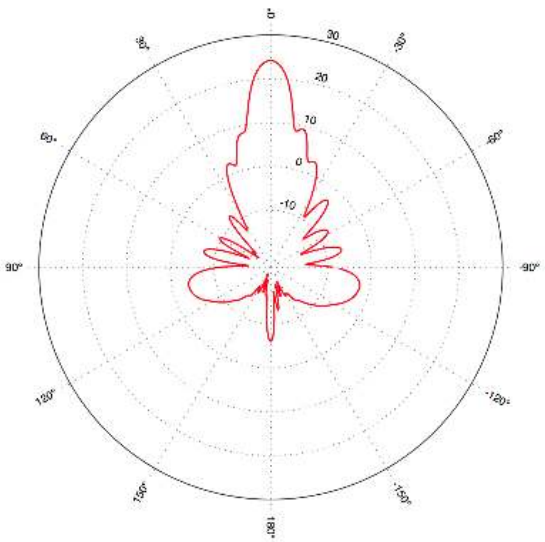
Vertical polarization



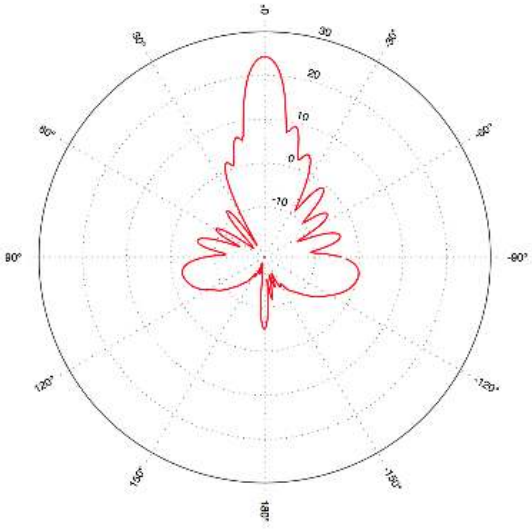
Gain over Frequency / GHz



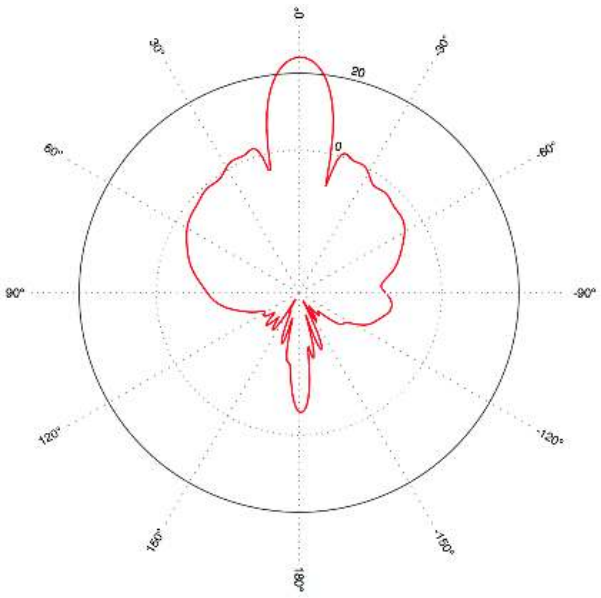
Horizontal 0 deg



Vertical 0 deg



Horizontal 90 deg



Vertical 90 deg