

LHG 5

The Light Head Grid (LHG) is a compact and light wireless device with an integrated 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.

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 type	Flash	
Storage size	16 MB	
10/100 Ethernet ports	1	
Wireless	Built-in 5 GHz 802.11a/n, dual-chain	
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°	
PoE in	Yes	
Supported input voltage	11 V - 30 V (passive PoE)	
Wind Survivability	205 km/h	
Wind Loading	186N @ 205 km/h	
Cross polar	15 dBi	
Port to port isolation	20 dB	
Front to back ratio	25 dB	
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



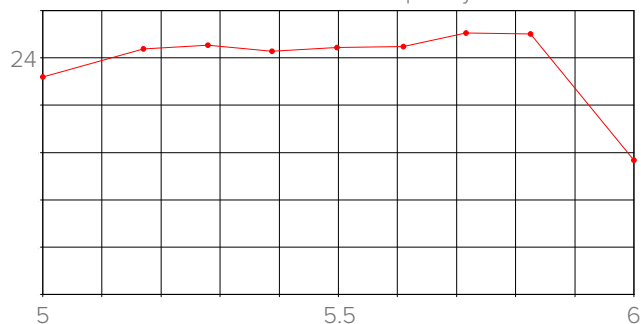
K-LHG kit

Wireless specifications

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

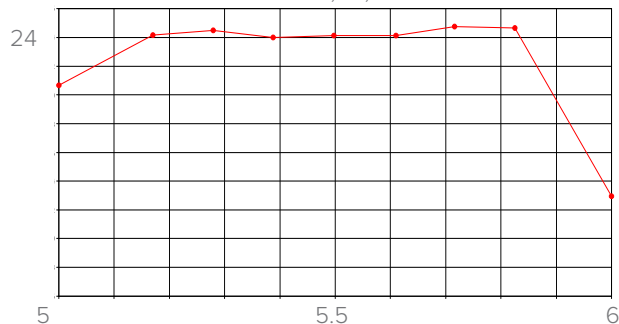
Antenna gain

Max Gain over Frequency



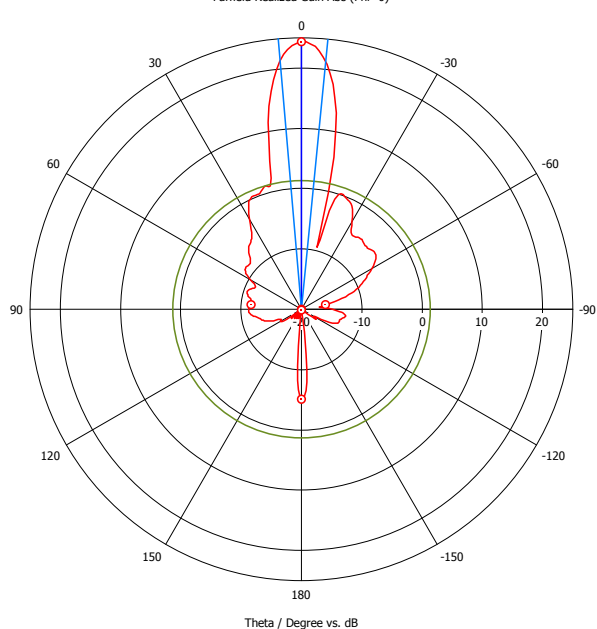
Horizontal gain

Realized Gain,3D,Max. Value

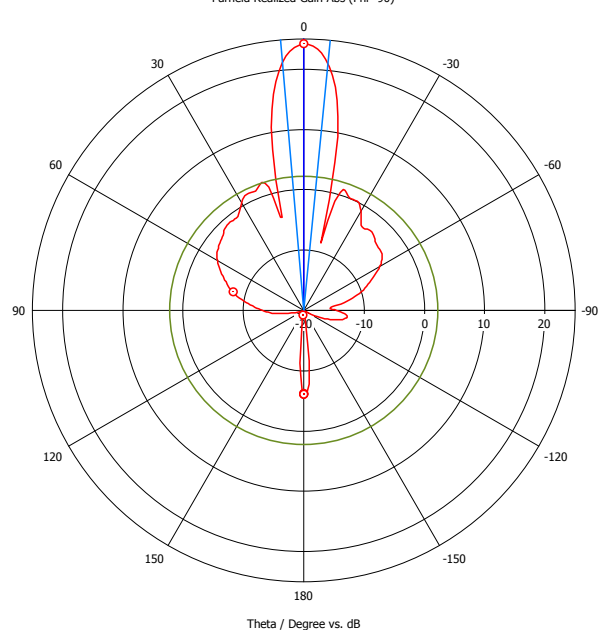


Vertical gain

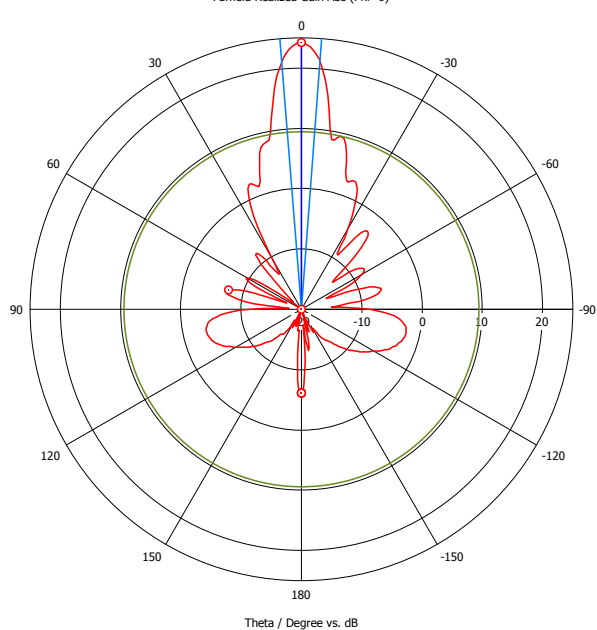
Farfield Realized Gain Abs (Phi=0)



Farfield Realized Gain Abs (Phi=90)



Farfield Realized Gain Abs (Phi=0)



Farfield Realized Gain Abs (Phi=90)

