LHG 2

The Light Head Grid (LHG) is a compact and light 2.4 GHz 802.11b/g/n wireless device with an integrated dual polarization 18 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-2nD
CPU nominal frequency	650 MHz
Size of RAM	64 MB
Storage	16 MB Flash
10/100 Ethernet ports	1
Wireless	Built-in 2.4 GHz 802.11b/g/n, dual-chain
Wireless regulations	Specific frequency range can be limited by country regulations
Wireless chip model	QCA9533
Operating frequency	2412 - 2484 MHz
Antenna gain	18 +/- 0.5 dBi
Antenna beam width	18°
Cross polar	15 dBi
Port to port isolation	23 dB
Front to back ratio	25 dB
PoE in	Yes
Supported input voltage	10 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	5 W

Included



24V 0.38A Power adapter



PoE injector



2x metal rings



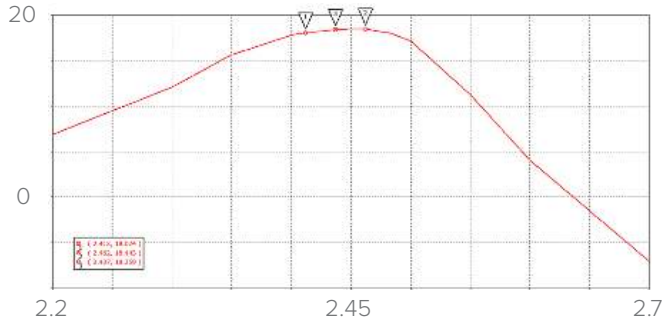
K-LHG kit

Wireless specifications

RATE	Tx (dBm)	Rx (dBm)
1MBit/s	25	-100
11MBit/s	25	-93
6MBit/s	25	-94
54MBit/s	22	-80
MCS0	25	-94
MCS7	21	-75

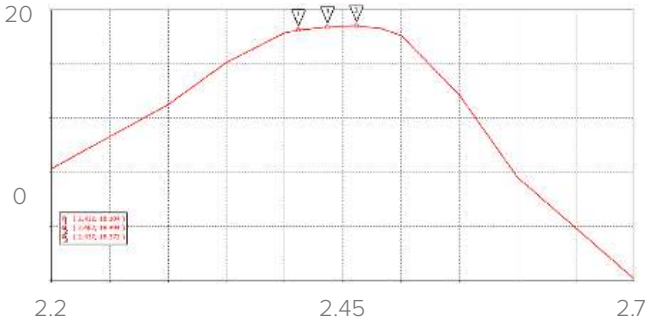
Antenna specifications

Horizontal polarization

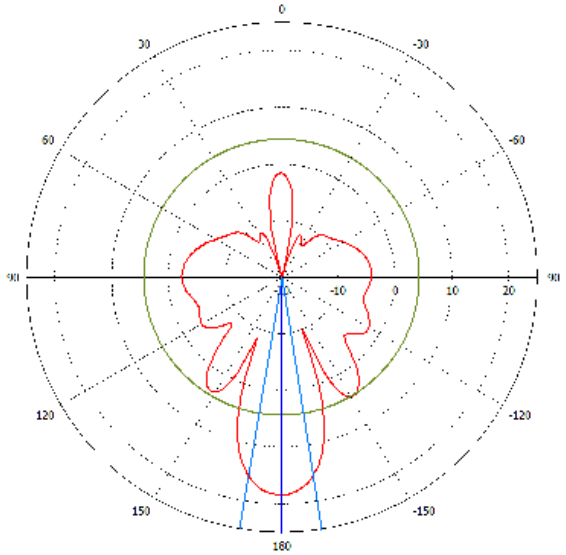


Gain over Frequency / GHz

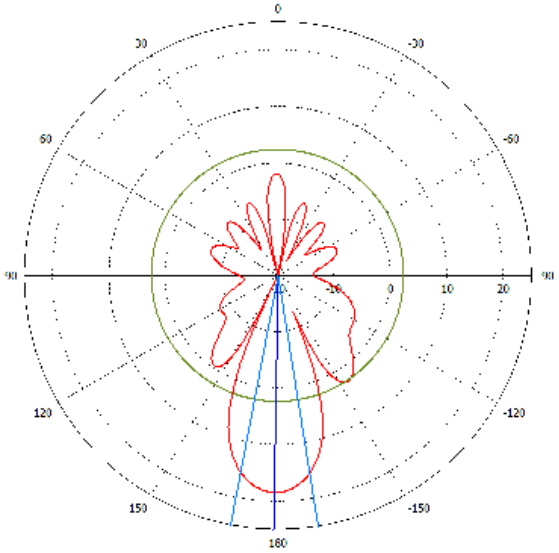
Vertical polarization



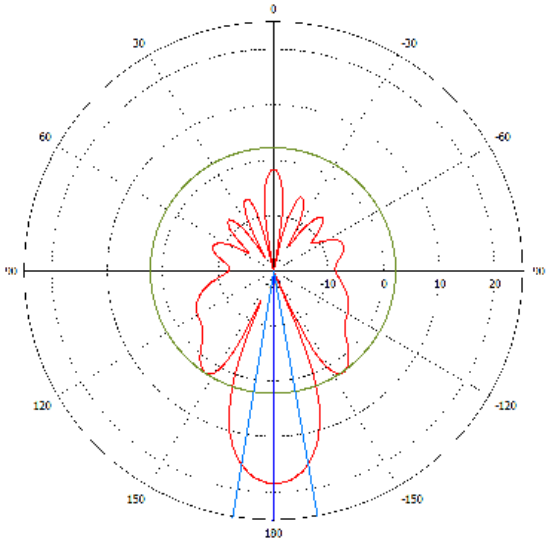
Gain over Frequency / GHz



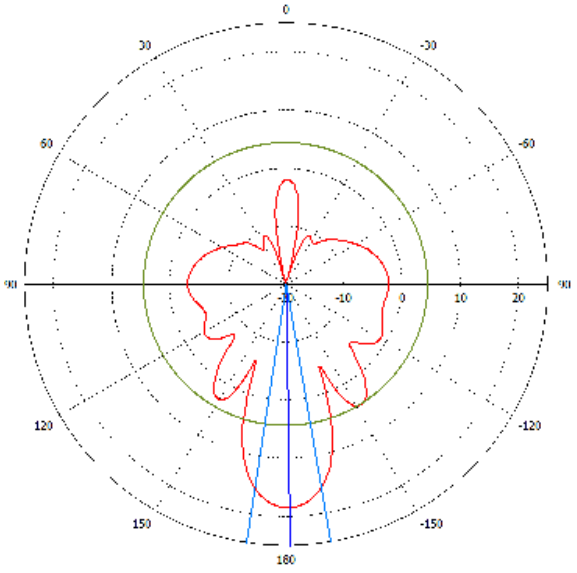
Horizontal 0 deg



Vertical 0 deg



Horizontal 90 deg



Vertical 90 deg