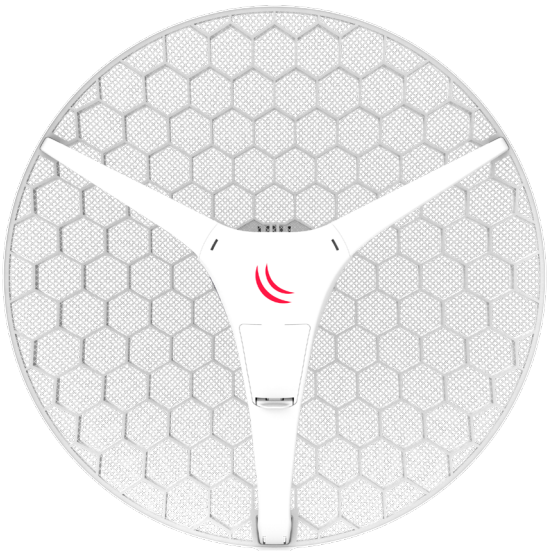
LHG 5 series

The Light Head Grid (LHG) is a compact and light wireless device with an integrated dual polarization grid antenna at a revolutionary price. It is perfect for point to point links or for use as a CPE at longer distances. Several models are available with standard power, high power and even the XL with a higher gain and larger grid.



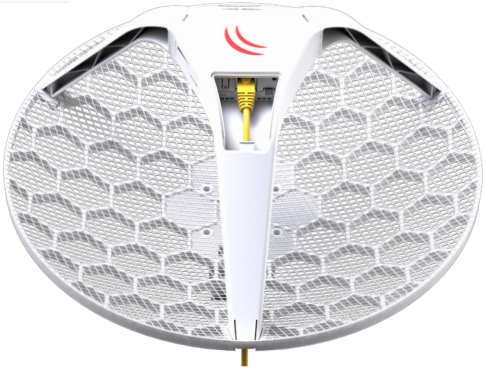
LHG XL HP5 / LHG XL 5 ac

LHG HP5 / LHG 5 ac

LHG 5

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.

Model	Antenna gain	Price
LHG 5	24.5 dBi	$59
LHG HP5	24.5 dBi	$69
LHG XL HP5	27 dBi	$79
LHG 5 ac	24.5 dBi	$89
LHG XL 5 ac	27 dBi	$99



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Specifications

Product code (International)	RBLHG-5nD	RBLHG-5HPnD	RBLHG-5HPnD-XL	RBLHGG-5acD	RBLHGG-5acD-XL
Product code (USA)	RBLHG-5nD-US	RBLHG-5HPnD-US	RBLHG-5HPnD-XL-US	RBLHGG-5acD-US	RBLHGG-5acD-XL-US
CPU nominal frequency	600 MHz			716 MHz	
Size of RAM	64 MB			256 MB	
Storage	16 MB Flash				
Ethernet ports	1x 10/100			1x 10/100/1000	
Wireless	Built-in 5 GHz 802.11a/n, dual-chain			Built-in 5 GHz 802.11ac, dual-chain	
Wireless regulations	Specific frequency range can be limited by country regulations				
Wireless chip model	AR9344			IPQ-4018	
Operating frequency	**International:** 5150 - 5875 MHz **USA:** 5170 - 5250 MHz; 5725 - 5835 MHz				
Antenna gain	24.5 +/- 0.5 dBi	24.5 +/- 0.5 dBi	27 +/- 0.5 dBi	24 +/- 0.5 dBi	27 +/- 0.5 dBi
Antenna beam width	7°	7°	6,4°	7°	
PoE in	Yes				
Supported input voltage	10 V - 30 V (passive PoE)				
Wind loading	186N @ 205 km/h				
Operating temperature	-40 to 70° C				
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		Ø 550 x 245 mm; package 585 x 595 x 138 mm	Ø 391 x 222 mm; package 450 x 450 x 145 mm	Ø 550 x 245 mm; package 585 x 595 x 138 mm
Weight	Unit: 560 g; package: 1.98 kg		Unit: 945 g; package: 2.99 kg	Unit: 560 g; package: 1.98 kg	Unit: 945 g; package: 2.99 kg
License level	3				
Max power consumption	6 W	7 W	7 W	8 W	7 W

Included

24V 0.38 A
Power adapter

2x metal rings

PoE injector

K-LHG kit

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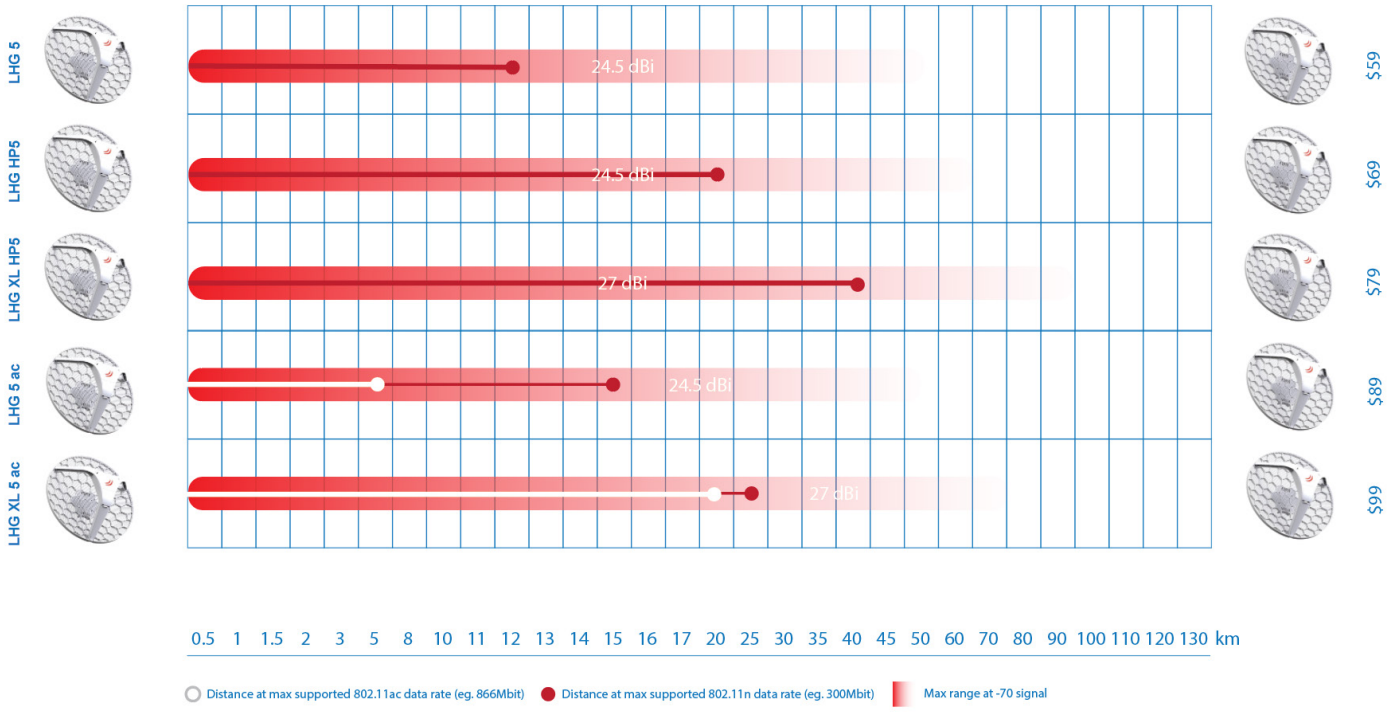
Wireless specifications

Model	LHG 5		LHG HP5		LHG XL HP5		LHG 5 ac		LHG XL 5 ac	
RATE	Tx (dBm)	Rx (dBm)	Tx (dBm)	Rx (dBm)	Tx (dBm)	Rx (dBm)	Tx (dBm)	Rx (dBm)	Tx (dBm)	Rx (dBm)
6MBit/s	25	-96	28	-96	28	-96	25	-96	25	-96
54MBit/s	20	-80	25	-80	25	-80	21	-80	21	-80
MCS0	25	-96	28	-96	28	-96	25	-96	25	-96
MCS7	19	-75	24	-75	24	-75	20	-75	20	-75
MCS9	-	-	-	-	-	-	18	-70	18	-70

Maximum distance comparison



Note: line of sight, interference, alignment, weather and other outside factors will affect the wireless link performance and possible distance

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