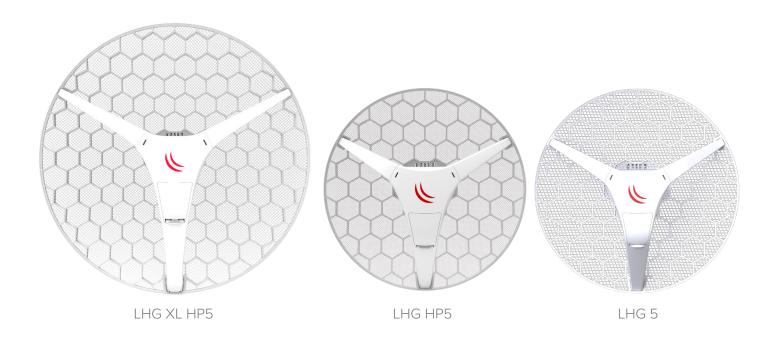


LHG series - now you can reach further!

We are adding two new models to our LHG product family, the LHG HP5 (high power) and LHG XL HP5 (extra large, high power). LHG HP5 comes with two times more output power than our regular LHG 5 - up to 630 mW, and is designed to reach up to 60% longer distances.



The LHG XL HP5 has a bigger 27dBi antenna with 630mW TX output power, designed to reach up to 40km in point-to-point setups at full speed, see the graphs for more information.

All units come with a PoE injector, power supply and pole mount, ready to be deployed.

| Model | Antenna gain | TX power | Price |
|------------|--------------|--------------|-------|
| LHG 5 | 24.5 dBi | up to 316 mW | \$59 |
| LHG HP5 | 24.5 dBi | up to 630 mW | \$69 |
| LHG XL HP5 | 27 dBi | up to 630 mW | \$79 |

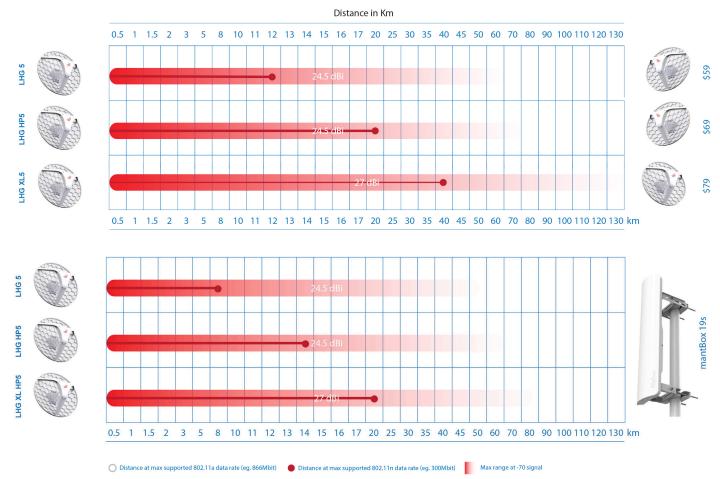




LHG series



Comparison



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

Wireless specifications

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











24V 0.38A 2x metal rings Power adapter

PoE injector

K-LHG kit



Specifications

| CPU nominal frequency 600 MHz Size of RAM 64 MB Storage 16 MB Flash 10/100 Ethernet ports 1 Wireless Bull-in 5 GHz 8021fa/n, dual-chall-storage Wireless chip model AR9344 Operating frequency International: 5150 - 5875 MHz USA: 5770 - 5250 MHz; 5725 - 5835 MHz Antenna gain 24.5 +/- 0.5 dBI 24.5 +/- 0.5 dBI 27 +/- 0.5 dBI Antenna beam width 7° 10,4° 6.4° Cross polar 15 dBI 15 dBI 21 dBI Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 35 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 19251 161 151 PoE in Yes 11V - 30 V (passive PoE) 10 V - 28 V (passive PoE) 14 dB Wind loading 180 × 205 km/h 15 dB 10 V - 28 V (passive PoE) 15 dB Wind loading 180 × 205 km/h | Product code | RBLHG-5nD (International) RBLHG-5nD-US (USA) | RBLHG-5HPnD (International) RBLHG-5HPnD-US (USA) | RBLHG-5HPnD-XL (International) RBLHG-5HPnD-XL-US (USA) | | | |
|--|-------------------------|---|---|--|--|--|--|
| 16 MB Flash 10/100 Ethernet ports 1 | CPU nominal frequency | 600 MHz | | | | | |
| 10/100 Ethernet ports 1 Wireless Bullt-in 5 GHz 802:l1a/n, dual-chall-stal | Size of RAM | 64 MB | | | | | |
| Wireless Chip model AR9344 Operating frequency Liternational: 5150 - 5875 MHz Antenna gain 24.5 +/- 0.5 dBi 24.5 +/- 0.5 dBi 27 +/- 0.5 dBi Antenna beam width 7° 10.4° 6.4° Cross polar 15 dBi 15 dBi 21 dBi Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 25 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 1925:1 16:1 15:1 PoE in Yes Supported input voltage 11V - 30 V (passive PoE) 10 V - 28 V (passive PoE) Wind loading 186N Ø 205 km/h Operating temperature 40 to 70° C Operating humidity 5 to 95% noncondensing Shock and vibration ETSi300-019-1.4 ETSI specification ETSI300-019- | Storage | 16 MB Flash | | | | | |
| Wireless chip model AR9344 Operating frequency International: 5150 - 5875 MHz USA: 5170 - 5250 MHz; 5725 - 5875 MHz Antenna gain 24.5 +/- 0.5 dBi 27 +/- 0.5 dBi 27 +/- 0.5 dBi Antenna beam width 7° 10.4° 6.4° Cross polar 15 dBi 15 dBi 21 dBi Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 25 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 1.925:1 1.6:1 1.5:1 PoE in Yes Supported input voltage 11V - 30 V (passive PoE) 10V - 28 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 391×222 mm; package 450 × 450 × 145 mm Ø 550 × 245 mm; package 585 × 995 × 138 mm Weight Unit: 945 g; package: 2.99 kg | 10/100 Ethernet ports | 1 | | | | | |
| 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 Antenna beam width 7° 10.4° 6,4° Cross polar 15 dBi 15 dBi 21 dBi Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 25 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 1.925:1 1.6:1 1.5:1 PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 V (passive PoE) Wind loading 186N @ 205 km/h 205 km/h Operating temperature -40 to 70° C -40 to 70° C Operating humidity 5 to 95% noncondensing 5 to 95% noncondensing Shock and vibration ETSi300-019-1.4 ETSi specification EN 302 326 DN2 Dimensions Ø 391x 222 mm; package 450 x 450 x 145 mm Ø 550 x 245 mm; package 585 x 595 x 138 mm Weight Unit: 945 g; package: 2.99 kg | Wireless | Built-in 5 GHz 802.11a/n, dual-chain | | | | | |
| Operating frequency USA: 5170 - 5250 MHz; 5725 - 5835 MHz Antenna gain 24.5 +/- 0.5 dBi 27 +/- 0.5 dBi 27 +/- 0.5 dBi Antenna beam width 7° 10.4° 6.4° Cross polar 15 dBi 21 dBi Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 35 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 1.925.1 1.6.1 1.5.1 PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 Ø 550 x 245 mm; package 585 x 595 x 138 mm Weight Unit: 945 g; package: 2.99 kg | Wireless chip model | AR9344 | | | | | |
| Antenna beam width 7° 10,4° 6,4° Cross polar 15 dBi 15 dBi 21 dBi Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 25 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 1925:1 16:1 1.5:1 POE in Yes Supported input voltage 11V - 30 V (passive PoE) 10 V - 28 V (passive PoE) Wind loading 186N @ 205 km/h Operating temperature -40 to 70° C Operating humidity 5 to 95% noncondensing Shock and vibration ETSI300-019-14 ETSI specification EN 302 326 DN2 Dimensions 0 391 x 222 mm; package 450 x 450 x 145 mm package 585 x 595 x 138 mm Weight Unit: 945 g; package: 2.99 kg | Operating frequency | | | | | | |
| Cross polar 15 dBi 21 dBi Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 25 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 1.925:1 16:1 1.5:1 PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 Ø 550 x 245 mm; package 585 x 595 x 138 mm Weight Unit: 945 g; package: 2.99 kg | Antenna gain | 24.5 +/- 0.5 dBi | 24.5 +/- 0.5 dBi | 27 +/- 0.5 dBi | | | |
| Port to port isolation 20 dB 18 dB 18 dB Front to back ratio 25 dB 35 dB Return loss 10 dB 12 dB 14 dB VSWR 1,925:1 16:1 1.5:1 PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 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 | Antenna beam width | 7° | 10,4° | 6,4° | | | |
| Front to back ratio 25 dB 25 dB 35 dB 35 dB Return loss 10 dB 12 dB 14 dB 14 dB VSWR 1.925:1 1.6:1 1.5:1 PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 | Cross polar | 15 dBi | 15 dBi | 21 dBi | | | |
| Return loss 10 dB 12 dB 14 dB VSWR 1,925:1 1.6:1 1.5:1 PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 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 | Port to port isolation | 20 dB | 18 dB | 18 dB | | | |
| VSWR 1.925:1 1.6:1 1.5:1 PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 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 | Front to back ratio | 25 dB | 25 dB | 35 dB | | | |
| PoE in Yes Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 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 | Return loss | 10 dB | 12 dB | 14 dB | | | |
| Supported input voltage 11 V - 30 V (passive PoE) 10 V - 28 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 Ø 550 x 245 mm; package 585 x 595 x 138 mm Weight Unit: 960 g; package: 1.98 kg Unit: 945 g; package: 2.99 kg | VSWR | 1.925:1 | 1.6:1 | 1.5:1 | | | |
| 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 Ø package 585 x 595 x 138 mm Weight Unit: 560 g; package: 1.98 kg Unit: 945 g; package: 2.99 kg | PoE in | Yes | | | | | |
| 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 Package 585 x 595 x 138 mm Weight Unit: 560 g; package: 1.98 kg Unit: 945 g; package: 2.99 kg | Supported input voltage | 11 V - 30 V (passive PoE) 10 V - 28 V (passive PoE) | | | | | |
| 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 Ø package 585 x 595 x 138 mm Weight Unit: 560 g; package: 1.98 kg Unit: 945 g; package: 2.99 kg | Wind loading | 186N @ 205 km/h | | | | | |
| 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 Weight Unit: 560 g; package: 1.98 kg Unit: 945 g; package: 2.99 kg | Operating temperature | -40 to 70° C | | | | | |
| ETSI specification | Operating humidity | 5 to 95% noncondensing | | | | | |
| Dimensions | Shock and vibration | ETSI300-019-1.4 | | | | | |
| Dimensions Ø 391 x 222 mm; package 450 x 450 x 145 mm package 585 x 595 x 138 mm Weight Unit: 560 g; package: 1.98 kg Unit: 945 g; package: 2.99 kg | ETSI specification | EN 302 326 DN2 | | | | | |
| | Dimensions | Ø 391 x 222 mm; package 450 x 4 | | | | | |
| Max Power consumption 6 W 7 W 7 W | Weight | Unit: 560 g; package: 1.98 kg | Unit: 945 g; package: 2.99 kg | | | | |
| | Max Power consumption | 6 W | 7 W | 7 W | | | |

LHG series 3