

RB4011iGS+5HacQ2HnD-IN

The WiFi model is a dual band, four chain unit with a supported data rate of up to 1733 Mbps in 5 GHz. For legacy devices, the unit also has a dual chain 2.4 GHz interface. The device has large external antennas for amazing 360 degree coverage.

In addition to the ten 1 Gbps ethernet ports, an SFP+ port provides optional 10 Gbps connectivity through an SFP+ module (not included).



Specifications

| | | |
|----------------------------|--|-----------------|
| Product code | RB4011iGS+5HacQ2HnD-IN | |
| CPU | 4 core AL21400 1.4 GHz | |
| Size of RAM | 1 GB | |
| Storage | NAND 512 MB | |
| 10/100/1000 Ethernet ports | 10 | |
| SFP+ port | 1 | |
| Switch chip model | RTL8367SB | |
| Wireless | 2.4 GHz radio | 5 GHz radio |
| Wireless regulations | Specific frequency range may be limited by country regulations | |
| Operating frequency | 2412 - 2484 MHz | 5150 - 5875 MHz |
| Wireless interface model | R11e-2HnD | QCA-9984 |
| Supported protocol | 802.11b/g/n | 802.11a/n/ac |
| Chains | 2 | 4 |
| Antenna beam width | 360° | |
| Antenna gain | 3 dBi (2 antennas dual band, 2 antennas single 5 GHz band) | |
| Power Jack | 1 | |
| PoE in | Yes (port 1), passive, 18 - 57 V | |
| PoE out | Yes (port 10), passive, up to 57 V | |
| Max power consumption | 23 W without PoE out, 44 W with PoE out | |
| Supported input voltage | 12 V - 57 V (jack) | |
| Voltage Monitor | Yes | |
| PCB temperature monitor | Yes | |
| Operating temperature | -40 C .. +45 C | |
| Dimensions | 228 x 120 x 30 mm | |
| Serial port | RJ45 | |
| License level | 5 | |
| Operating System | RouterOS | |

Included



24 V 2.5 A
Power adapter



IEC power cord

Wireless specifications

| RATE (2.4 GHz) | | | RATE (5 GHz) | | |
|----------------|----------|----------|--------------|----------|----------|
| | Tx (dBm) | Rx (dBm) | | Tx (dBm) | Rx (dBm) |
| 1MBit/s | 28 | -100 | 6MBit/s | 33 | -96 |
| 11MBit/s | 28 | -94 | 54MBit/s | 29 | -81 |
| 6MBit/s | 29 | -96 | MCS0 | 33 | -96 |
| 54MBit/s | 25 | -80 | MCS7 | 28 | -77 |
| MCS0 | 26 | -96 | MCS9 | 26 | -72 |
| MCS7 | 24 | -79 | | | |

Ethernet test results

| RB4011iGS+5HacQ2HnD-IN | | Max possible throughput | | | | | |
|------------------------|------------------------|-------------------------|---------|----------|---------|---------|---------|
| Mode | Configuration | 1518 byte | | 512 byte | | 64 byte | |
| | | kpps | Mbps | kpps | Mbps | kpps | Mbps |
| Bridging | none (fast path) | 806.4 | 9,792.9 | 2,312.9 | 9,473.6 | 5,509.7 | 2,821.0 |
| Bridging | 25 bridge filter rules | 806.4 | 9,792.9 | 1,037.4 | 4,249.2 | 1,153.2 | 590.4 |
| Routing | none (fast path) | 806.4 | 9,792.9 | 1,923.3 | 7,877.8 | 5,092.3 | 2,607.3 |
| Routing | 25 simple queues | 806.4 | 9,792.9 | 1,046.6 | 4,286.9 | 960.3 | 491.7 |
| Routing | 25 ip filter rules | 593.7 | 7,209.9 | 625.2 | 2,560.8 | 564.6 | 289.1 |

IPsec test results

| RB4011iGS+5HacQ2HnD-IN | | RB4011iGS+5HacQ2HnD-IN IPsec throughput | | | | | |
|------------------------|----------------------|---|--------|----------|-------|---------|-------|
| Mode | Configuration | 1400 byte | | 512 byte | | 64 byte | |
| | | kpps | Mbps | kpps | Mbps | kpps | Mbps |
| Single tunnel | AES-128-CBC + SHA1 | 140.8 | 1577 | 141,2 | 578.4 | 139.9 | 71.6 |
| 256 tunnels | AES-128-CBC + SHA1 | 192.7 | 2158.2 | 200.5 | 821.2 | 203.4 | 104.1 |
| 256 tunnels | AES-128-CBC + SHA256 | 192.4 | 2154.9 | 200.5 | 821.2 | 203.4 | 104.1 |
| 256 tunnels | AES-256-CBC + SHA1 | 180.0 | 2016.0 | 188.2 | 770.9 | 190.3 | 97.4 |
| 256 tunnels | AES-256-CBC + SHA256 | 180.0 | 2016.0 | 188.2 | 770.9 | 190.3 | 97.4 |
| 256 tunnels | AES-128-GCM | 192.7 | 2158.2 | 202.2 | 828.2 | 203.4 | 104.1 |