

# THE 4011 SERIES

FUEL YOUR NETWORK



The RB4011 uses the amazingly powerful quad core Cortex A15 chip from Annapurna labs, an Amazon company, same as in our carrier grade RB1100AHx4 unit. The CPU supports IPsec hardware acceleration, there is 1GB of RAM, so this device will easily handle any task you have configured RouterOS to perform. All of this power, in a compact, fanless and professional looking solid metal enclosure in matte black.



1.4GHZ CPU

X4

QUAD CORE ARM



IPSEC ACCELERATED



# RB4011iGS+RM

In addition to the ten 1 Gbps ethernet ports, an SFP+ port provides optional 10 Gbps connectivity through an SFP+ module (not included). All of this power, in a compact and professional looking solid metal enclosure in matte black.

The ethernet model includes two rackmount ears, that will securely fasten the unit in standard 1U rack space.

# Specifications

|                            |                                         |
|----------------------------|-----------------------------------------|
| Product code               | RB4011iGS+RM                            |
| 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                               |
| 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      | 18 W without PoE out, 33 W with PoE out |
| Supported input voltage    | 12 V - 57 V (jack)                      |
| Voltage Monitor            | Yes                                     |
| PCB temperature monitor    | Yes                                     |
| Operating temperature      | -40 C .. +70 C                          |
| Dimensions                 | 228 x 120 x 30 mm                       |
| Serial port                | RJ45                                    |
| License level              | 5                                       |
| Operating System           | RouterOS                                |

# Included



24 V 1.5 A  
power adapter



Rack mount

# Ethernet test results

| RB4011iGS+RM |                        | 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 | 5092.3  | 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+RM  |                      | RB4011iGS+RM 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 |

