Cloud Core Router 1009

The CCR1009 is a powerful Ethernet router based on the cutting edge TILERA 9 core CPU with the best price/performance.

Included

- IEC Cord
- USB cable
- Rackmount ears

CCR1009-8G-1S-1S+ throughput

<table>
<thead>
<tr>
<th>Mode</th>
<th>Configuration</th>
<th>All port test</th>
<th>RouterOS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1518 byte</td>
<td>512 byte</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mbps</td>
<td>kpps</td>
</tr>
<tr>
<td>Bridging</td>
<td>none (fast path)</td>
<td>11,968.5</td>
<td>974.0</td>
</tr>
<tr>
<td>Bridging</td>
<td>25 bridge filter rules</td>
<td>11,968.5</td>
<td>974.0</td>
</tr>
<tr>
<td>Routing</td>
<td>none (fast path)</td>
<td>11,968.5</td>
<td>974.0</td>
</tr>
<tr>
<td>Routing</td>
<td>25 simple queues</td>
<td>11,968.5</td>
<td>974.0</td>
</tr>
<tr>
<td>Routing</td>
<td>25 ip filter rules</td>
<td>7,544.8</td>
<td>614.0</td>
</tr>
<tr>
<td>Model</td>
<td>CCR1009-8G-1S</td>
<td>CCR1009-8G-1S-1S+</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>--------------</td>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>Tilera TILE-Gx8009 CPU (9-cores, 1.2Ghz per core)</td>
<td>RAM: 2GB DDR3 800 MHz</td>
<td></td>
</tr>
<tr>
<td>RAM</td>
<td>RAM: 1GB DDR3 800 MHz</td>
<td>One</td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>8 RJ-45 Gigabit Eth ports</td>
<td>One, supports also SFP 1.25G</td>
<td></td>
</tr>
<tr>
<td>SFP 1.25G cage</td>
<td>-</td>
<td>microUSB port, SmartCard slot, MicroSD slot</td>
<td></td>
</tr>
<tr>
<td>SFP+ 10G cage</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Expansion</td>
<td>microUSB port</td>
<td>Yes (if one power line fails, the other one will take over automatically)</td>
<td></td>
</tr>
<tr>
<td>Dual power supply for redundancy</td>
<td>-</td>
<td>Yes (to store your private key for use in all features that support Certificate based authentication)</td>
<td></td>
</tr>
<tr>
<td>LCD color touchscreen</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Smart Card slot</td>
<td>-</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Compatible with 1.25 Gb/s SFP</td>
<td>S-31DLC20D</td>
<td>S-3553LC20D</td>
<td></td>
</tr>
<tr>
<td>Compatible with 10 Gb/s SFP</td>
<td>S+DA0003</td>
<td>S+DA0001</td>
<td></td>
</tr>
</tbody>
</table>

**Using DNS names in VPN address now possible**

We have made an often requested feature possible in the latest RouterOS release. Starting from RouterOS v6.12 it is now possible to specify DNS names in your VPN tunnel destination address. This is convenient for devices that connect to PPTP/L2TP or other tunnel providers which change their IP addresses often. You can simply configure a Dynamic DNS provider on that VPN server, and use the DNS name like "vpn.dnsprovider.com" in your VPN configuration address setting.
CCR1016-12S-1S+

CCR1016 is an industrial grade router with a cutting edge 16 core Tilera CPU. If you need to forward many millions of packets per second - Cloud Core Router is your best choice.

This model has twelve SFP ports and one SFP+ port for 10G connectivity. It is available in a 1U rackmount case and also has a serial console port, a touchscreen LCD and a USB port.

The CCR1016-12S-1S+ comes with redundant power supplies and one RJ45 SFP 10/100/1000M copper module for management.

- 12x SFP ports for 1 Gigabit connectivity
- 1x SFP+ port for 10 Gigabit connectivity
- 16 core Tilera CPU, 1.2GHz clock per core
- 12 Mbytes total on-chip cache
- State of the art TILE GX architecture
- Ports directly connected to CPU
- 1U rackmount case
- Color touchscreen LCD display
- two power supplies for redundancy

Available now! More details:
View on the web

Included

- USB cable
- IEC Cord x2
- RJ45 SFP copper module
- Rackmount ears

Compatible with

- S+DA0003 SFP+ 3m direct attach cable
- S+DA0001 SFP+ 1m direct attach cable
- S-31DLC20D SFP (1.25G) module, 20KM, Single Mode
- S+31DLC10D SFP+ (10Gbit) module, Long range 10km, Single Mode
- S-3553LC20D Two SFP (1.25G) module kit, 20Km, single mode
- S-85DLC05D SFP (1.25G) module, 550m, Multi Mode
- S+85DLC03D SFP+ (10Gbit), 300m, Multi Mode
Introducing High Power 23dbi 5Ghz Backbone- QRT-5!

- high power up to ~1000mW TX!
- 23dbi 10.5 degree antenna
- 4.900-5.920GHz frequency
- 802.11a/n 2x2 MIMO
- Gigabit Ethernet
- Comes with RouterOS L4
- Can be used as sector AP, long-distance Backbone, or CPE

Product code: RB911G-5HPnD-QRT
http://routerboard.com/RB911G-5HPnD-QRT

$169

Heartbleed - MikroTik RouterOS is not affected

On April 7th, a vulnerability named Heartbleed was disclosed that affected OpenSSL, a software library that is used by many websites and programs to secure your communication. MikroTik products are not affected by this security exploit, as we do not utilize the affected OpenSSL library in our core product.

All RouterOS versions are secure against this issue.

All versions prior to v6.12 used an unaffected, older version of OpenSSL, and since v6.12 the latest OpenSSL version will be used, where the heartbleed issue is fixed.

We didn’t use any of the affected OpenSSL versions in any of our products, so no specific action is required on your side.
**RB911 Series**

Perfect for building low cost CPE devices.

The RB911 is a small CPE type RouterBOARD wireless router with an integrated wireless card. It’s equipped with powerful 600Mhz CPU, providing superb value for money.

These devices include RouterOS, the operating system which can be a router, firewall, bandwidth manager, a CPE and more, all at the same time.

RB911 series include several models. See below table for their differences.

<table>
<thead>
<tr>
<th>Model</th>
<th>911 Lite 5</th>
<th>911 Lite 5 dual</th>
<th>911 Lite 2</th>
<th>RB911G-5HPnD</th>
<th>RB911G-2HPnD</th>
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</thead>
<tbody>
<tr>
<td>Product code</td>
<td>RB911-5Hn</td>
<td>RB911-5HnD</td>
<td>RB911-2Hn</td>
<td>RB911G-5HnPnD</td>
<td>RB911G-2HnPnD</td>
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<tr>
<td>CPU</td>
<td>AR9344 600MHz</td>
<td>AR9344 600MHz</td>
<td>AR9344 600MHz</td>
<td>AR9342 600MHz</td>
<td>AR9342 600MHz</td>
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<tr>
<td>RAM</td>
<td>64MB DDR2</td>
<td>64MB DDR2</td>
<td>64MB DDR2</td>
<td>32MB DDR</td>
<td>32MB DDR</td>
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<td>Flash memory</td>
<td>16MB SPI flash</td>
<td>128MB NAND flash</td>
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<td></td>
<td></td>
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<tr>
<td>Band</td>
<td>5GHz</td>
<td>5GHz</td>
<td>2.4GHz</td>
<td>5GHz</td>
<td>2.4GHz</td>
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<tr>
<td>Chains</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Gigabit</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>High Power</td>
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<td>+</td>
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<tr>
<td>Power jack</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Consumption</td>
<td>5W</td>
<td>7W</td>
<td>4W</td>
<td>11W</td>
<td>11W</td>
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<tr>
<td>Beeper</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Voltage monitor</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>PCB temperature monitor</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Max TX power</td>
<td>23dBm</td>
<td>26dBm</td>
<td>24dBm</td>
<td>30dBm</td>
<td>30dBm</td>
</tr>
<tr>
<td>Dimensions</td>
<td>105x105mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power options</td>
<td>PoE: 8-30V DC on Eth 1 (Non 802.3af)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RouterOS Licence</td>
<td>WISP CPE (level 3) license</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Available now! More details:

See PDF
CRS features added in RouterOS v6.12

We have added a plethora of new features for CRS series Switch devices in our RouterOS v6.12 release. As you can see in the following list, more than half of the options are new. Upgrade your Switch to professional level with simple software update. Even more features will be added in upcoming versions.

Key Features

- Fully manageable switch, full wire-speed switching
- Configurable ports for switching or routing
- Ethernet, Fiber or 4G (with optional USB modem) gateway connection to Internet
- LCD touchscreen
- RJ45 serial port
- Reset switch; beeper; voltage and temperature monitoring
- Passive cooling
- RouterOS, L5 license

Switch-chip Features

- All Forwarding Databases support IVL and SVL
- Configurable port based and VLAN based learning limit
- Up to 16K MAC entries in Unicast FDB for Layer 2 unicast forwarding
- Up to 1K MAC entries in Multicast FDB for multicast forwarding
- Up to 256 MAC entries in Reserved FDB for control and management purposes
- Local switching allows packets to be sent back to original port
- Jumbo frame support (CRS125: 4064 Bytes; CRS226: 9204 Bytes)

Quality of Service (QoS)

- Flexible QoS classification and assignment
  - Port based
  - DSCP based
  - PCP/DEI based
  - Protocol based
  - VLAN based
  - ACL based
- QoS remarking and remapping for QoS domain translation between service provider and user networks
- Overriding of each QoS assignment according to the configured priority

VLAN

- Fully compliant with IEE802.1Q and IEE802.1ad VLAN
- 4K active VLANs
- Flexible VLAN assignment:
  - Port based VLAN
  - Protocol based VLAN
  - MAC based VLAN
- From any to any VLAN translation and swapping
- 1:1 VLAN switching – VLAN to port mapping
- VLAN filtering

Trunking

- Supports IEE802.3ad and IEE802.1ax Link Aggregation Protocols
- Up to 8 Trunk groups
- Up to 8 trunk member ports per Trunk group
- Hardware automatic failover and load balancing

Port Isolation and Leakage

- Applicable for Private VLAN implementation
- 3 port profile types: Promiscuous, Isolated and Community
- Up to 28 Community profiles
- Leakage profiles allow bypassing egress VLAN filtering

Mirroring

- Various types of mirroring:
  - Port based VLAN
  - Protocol based VLAN
  - MAC based VLAN
  - 2 independent mirroring analyzer ports

Access Control List (only on CRS226)

- Ingress and Egress ACL tables
- Up to 512 ACL rules
- Classification based on ports, L2, L3, L4 protocol header fields.
- ACL actions include filtering, forwarding and modifying of the protocol header fields

Bandwidth Shaping and Packet Scheduler

- Shaping per port, per queue, per queue group
- 8 queues on each physical port

IP Routing

- Wire-speed static IP routing (Coming soon)