

MikroTik



CRS354-48G-4S+2Q+RM

Best price and best performance on the market – this 48 port switch will rock any setup, including 40 Gbps devices!

If you are looking for a single switch that will put your network setup ahead of the curve without costing a fortune, look no further. The new CRS354-48G-4S+2Q+RM is an effective and adaptable rackmount solution for managing networks in demanding and busy environments. With this product we aim to set a new price-performance bar – get more features while spending way less!

/ High-end performance for the masses: more 10G ports and even 40G ports, because **speed matters**



The 48 port champion you've been waiting for – the bargain of the decade!

This powerful switch has 48 x 1G RJ45 ports and 4 x 10G SFP+ ports. There are also 2 x 40G QSFP+ ports for extremely fast fiber connections or linking with other 40 Gbps devices.

The total non-blocking throughput is 168 Gbps, switching capacity is 336 Gbps and the forwarding rate reaches 235 Mpps.

Specifications

| | |
|----------------------------|--|
| Product code | CRS354-48G-4S+2Q+RM |
| CPU | QCA9531, 650 MHz |
| Size of RAM | 64 MB |
| Storage | 16 MB flash |
| 10/100 Ethernet ports | 1 |
| 10/100/1000 Ethernet ports | 48 |
| 10G SFP+ ports | 4 |
| 40G QSFP+ ports | 2 |
| Supported input voltage | AC power supply 100 - 240 V |
| Redundant supply | Yes |
| Serial port | RJ45 |
| Dimensions | 297 x 443 x 44 mm |
| Operating temperature | -20°C .. +60°C |
| Operating system | RouterOS (License level 5) or SwitchOS |
| Max power consumption | 60 W |

Included parts



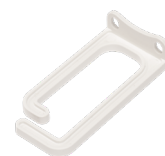
2 IEC cords



Screw and feet
kit



Rackmount ears



Cable
management
brackets

Switching test results

| QCA9531 CRS354-48G-4S+2Q+ | | RouterOS v6.45.7 | | | | | |
|---------------------------|---------------------------------|------------------|---------|----------|---------|----------|---------|
| Mode | Configuration | 1518 byte | | 512 byte | | 64 byte | |
| | | kpps | Gbps | kpps | Gbps | kpps | Gbps |
| Switching | Non blocking Layer 2 throughput | 13329 | 161,867 | 38533,8 | 157,834 | 235114,7 | 120,379 |
| Switching | Non blocking Layer 2 capacity | 13329 | 323,735 | 38533,8 | 315,669 | 235114,7 | 240,758 |
| Switching | Non blocking Layer 1 throughput | 13329 | 168 | 38533,8 | 168 | 235114,7 | 120,379 |
| Switching | Non blocking Layer 1 capacity | 13329 | 336 | 38533,8 | 336 | 235114,7 | 240,758 |

Like other CRS products, **CRS354-48G-4S+2Q+RM** comes with a decent built-in CPU, that can utilize all RouterOS features, but with some performance restrictions (indicated in table below).

CPU Layer 3 performance results

| QCA9531 CRS354-48G-4S+2Q+ | | RouterOS v6.45.7 | | | | | |
|---------------------------|------------------------|------------------|-------|----------|-------|---------|------|
| Mode | Configuration | 1518 byte | | 512 byte | | 64 byte | |
| | | kpps | Mbps | kpps | Mbps | kpps | Mbps |
| Bridging | none (fast path) | 34,9 | 423,8 | 58,5 | 239,6 | 119,8 | 61,3 |
| Bridging | 25 bridge filter rules | 26,5 | 321,8 | 42,9 | 175,7 | 44,9 | 23 |
| Routing | none (fast path) | 35,4 | 429,9 | 61,8 | 253,1 | 116,8 | 59,8 |
| Routing | 25 simple queues | 33,7 | 409,3 | 46,8 | 191,7 | 57,5 | 29,4 |
| Routing | 25 ip filter rules | 23,7 | 287,8 | 30,1 | 123,3 | 31,4 | 16,1 |