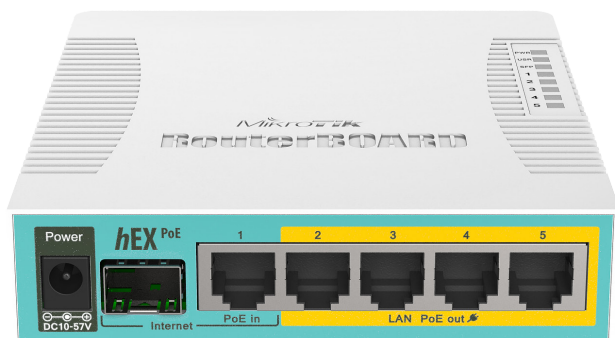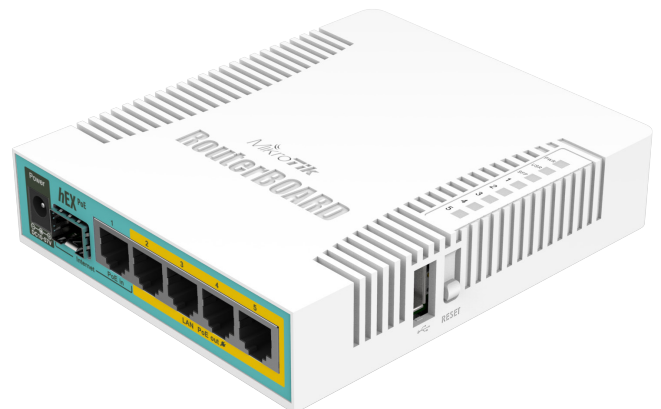# hEX PoE

hEX PoE is a five port gigabit ethernet router for locations where wireless connectivity is not required. The device has a USB 2.0 port and a SFP port for adding optical fiber connectivity. The ports 2-5 can power other PoE capable devices with the same voltage as applied to the unit.

It is affordable, small and easy to use, but at the same time comes with a very powerful 800MHz CPU, capable of all the advanced configurations that RouterOS supports.

Less power adapters and cables to worry about! Max current is 1A per port if input voltage is 12-30V, 450mA if 31-57V, Ethernet ports are shielded.
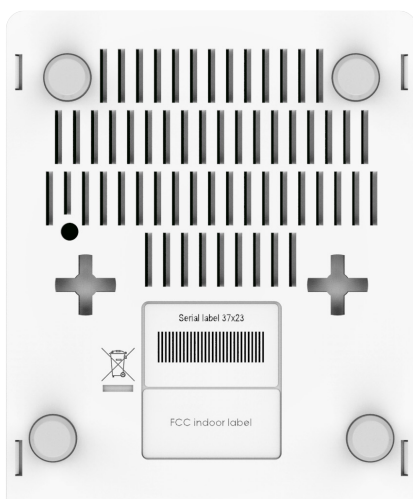
RB960PGS can power 802.3af/at devices if 48V DC input is used (unit comes with 24v power supply, so you would have to purchase 48v power supply separately to support this). Unit provides max current 450mA for each port regardless device power class (doesn't support PoE powered device classification).

# Specifications

| | |
|---|---|
| Product code | RB960PGS |
| CPU | QCA9557 |
| CPU nominal frequency | 800 MHz |
| CPU core count | 1 |
| Size of RAM | 128 MB |
| 10/100/1000 Ethernet ports | 5 |
| PoE in | Yes, passive |
| Supported input voltage | 12 - 57 V |
| Power output | On ports 2-5, Output: 1A max per port; 2A max total (12-30v), 450mA max per port; 1,8A max total (31-57v) |
| PCB temperature monitor | Yes |
| Voltage monitor | Yes |
| USB slot | Yes |
| Dimensions | 114 x 137 x 29mm |
| License level | 4 |
| Operating System | RouterOS |
| Max Power consumption | 9 W |

# Performance test results

| QCA9557(800Mhz) | | Max possible throughput RouterOS v6.38rc9 | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1518 byte | | 512 byte | | 64 byte | |
| Mode | Configuration | kpps | Mbps | kpps | Mbps | kpps | Mbps |
| Bridging | none (fast path) | 161.9 | 1,966.1 | 401.5 | 1,644.5 | 542.3 | 277.7 |
| Bridging | 25 bridge filter rules | 143.2 | 1,739.0 | 145.5 | 596.0 | 146.2 | 74.9 |
| Routing | none (fast path) | 161.9 | 1,966.1 | 396.3 | 1,623.2 | 521.7 | 267.1 |
| Routing | 25 simple queues | 161.9 | 1,966.1 | 217.2 | 889.7 | 216.0 | 110.6 |
| Routing | 25 ip filter rules | 74.6 | 905.9 | 78.0 | 319.5 | 76.5 | 39.2 |

1. All tests are done with Xena Networks specialized test equipment (XenaBay),and done according to RFC2544 (Xena2544)
2. Max throughput is determined with 30+ second attempts with 0,1% packet loss tolerance in 64, 512, 1518 byte packet sizes
3. Values in Italic indicate that max throughput was reached without maxing out CPU, but because board interface configuration was maxed out
4. Test results show device maximum performance, and are reached using mentioned hardware and software configuration, different configurations most likely will result in lower results

Included

24V 2.5A Power adapter