

## CCR1072-1G-8S+

Our new flagship router, the CCR1072, is powered by a Tiler 72 core CPU, each core is clocked at 1GHz, and to fully utilise this power, the CCR1072 is equipped with eight independently connected 10G SFP+ ports.

Thanks to the unique 72 core processor and ports that are directly connected to the CPU, CCR1072 is capable of over 120 million packets per second throughput.



### Full set of features

- 8x SFP+ ports
- 16GB ECC RAM
- Ports directly connected to CPU
- microSD and 2x M.2

### Highest performance

- over 120 million pps packet throughput
- up to 80 Gbps throughput

### New generation CPU

- 72 core CPU
- 1 GHz clock per core
- State of the art TILE GX architecture



The unit comes equipped with two removable (hot plug) power supplies for redundancy, smart card slot, eight SFP+ ports and 16GB of built in ECC RAM.

The CCR1072 also has two built-in M.2 slots, microSD and 2x USB for adding storage, to use for proxy cache, user manager and other features. The M.2 slots accept 800mm Key-M x4 PCIe 2.0 modules.



## Specifications

|                            |                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product code               | CCR1072-1G-8S+                                                                                                                                          |
| CPU nominal frequency      | 1 GHz                                                                                                                                                   |
| CPU core count             | 72                                                                                                                                                      |
| Size of RAM                | 16 GB                                                                                                                                                   |
| Storage                    | 128 MB Onboard NAND, also see <i>expansion</i>                                                                                                          |
| 10/100/1000 Ethernet ports | 1                                                                                                                                                       |
| Power supply               | 2x IEC C14 standard connectors 110/220V (Two redundant PSU)                                                                                             |
| Supported input voltage    | 12 V                                                                                                                                                    |
| CPU temperature monitor    | Yes                                                                                                                                                     |
| PCB temperature monitor    | Yes                                                                                                                                                     |
| Voltage Monitor            | Yes                                                                                                                                                     |
| Current monitor            | Yes                                                                                                                                                     |
| Dimensions                 | 443x315x40mm, weight: 3.8 kg, weight with packaging: 5.125 kg                                                                                           |
| License level              | 6                                                                                                                                                       |
| Operating System           | RouterOS                                                                                                                                                |
| CPU                        | Tilera Tile-Gx72 CPU                                                                                                                                    |
| Max Power consumption      | 100 W                                                                                                                                                   |
| Display                    | Color LCD, touchscreen                                                                                                                                  |
| SFP                        | 8x 10G Ethernet SFP+ cages (Mini-GBIC; SFP module not included), DDMI support                                                                           |
| Expansion                  | 1x microUSB 2.0, 1x regular USB 2.0, full size Smart Card slot, microSD slot, 2x M.2 slots with x4 PCIE 2.0, Key-M, module size support: 2242,2260,2280 |
| Serial port                | RJ45                                                                                                                                                    |
| Suggested price            | \$3,050                                                                                                                                                 |

## Included



2x IEC cords



Screw and feet kit



Rackmount ears

## Performance test results

| CCR1072-1G-8S+ |                        | Tile 72 Core (1200Mhz, DDR1333) Max possible throughput |         |          |          |          |           |
|----------------|------------------------|---------------------------------------------------------|---------|----------|----------|----------|-----------|
| Mode           | Configuration          | 1518 byte                                               |         | 512 byte |          | 64 byte  |           |
|                |                        | Mbps                                                    | kpps    | Mbps     | kpps     | Mbps     | kpps      |
| Bridging       | none (fast path)       | 78,960.3                                                | 6,502.0 | 76,963.8 | 18,790.0 | 60,952.4 | 119,047.6 |
| Bridging       | 25 bridge filter rules | 74,448.8                                                | 6,130.5 | 33,557.3 | 8,192.7  | 5,293.8  | 10,339.5  |
| Routing        | none (fast path)       | 78,960.3                                                | 6,502.0 | 76,963.8 | 18,790.0 | 44,291.6 | 86,507.0  |
| Routing        | 25 simple queues       | 78,960.3                                                | 6,502.0 | 50,669.2 | 12,370.4 | 6,898.8  | 13,474.2  |
| Routing        | 25 ip filter rules     | 56,683.3                                                | 4,667.6 | 24,515.0 | 5,985.1  | 3,007.4  | 5,873.8   |

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