ComX Computers
Product Specification Sheet

RBCCR2004-16G-2S+

MikroTik CCR2004-16G-2S+ 16x Gigabit Ethernet & 2x 10G SFP+ Ports, 1x USB Port

Product Overview

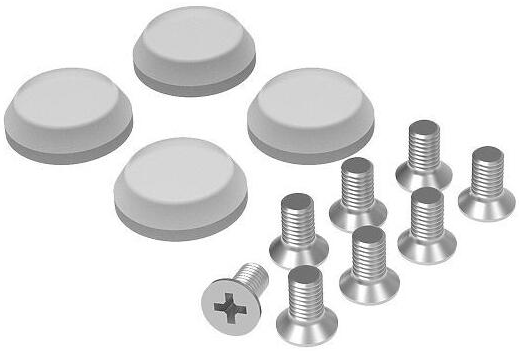
MikroTik CCR2004-16G-2S+ 16x Gigabit Ethernet & 2x 10G SFP+ Ports, 1x USB Port, RouterOS license L6, RouterOS Operating System, 4GB RAM, 128 MB storage size, 1700 MHz Quad Core CPU, 2 AC inputs, 16x Gigabit Ethernet Ports, 2x SFP+ Ports











Specifications

Overview Summary:

The MikroTik CCR2004-16G-2S+ is a high-performance rackmount router built for demanding business and enterprise networks. With 16 Gigabit Ethernet ports, dual 10G SFP+ uplinks and powerful quad-core processing, it delivers fast and reliable connectivity for offices, ISPs and growing network environments. Buy now to upgrade your network infrastructure with stable RouterOS performance and advanced routing capabilities.

Designed for efficiency and scalability, this MikroTik router offers excellent throughput for VPNs, bandwidth management, VLANs and heavy traffic applications. Dual redundant power supplies and active cooling ensure dependable operation in professional environments. Shop now for a reliable networking solution suited for South African businesses and IT professionals.

Performance tier: Enterprise / High Performance

Uses: Business networking, office routing, ISP deployments, VLAN management, VPN routing, bandwidth control, rackmount network installations, fibre uplink connectivity

Overview:

MikroTik CCR2004-16G-2S+ High-Performance Cloud Core Router
The MikroTik CCR2004-16G-2S+ is a powerful rackmount router designed for businesses that require high-speed networking, advanced routing performance, and reliable connectivity. Built around the Annapurna Labs Alpine v2 quad-core ARM CPU running at 1.7GHz, this enterprise-grade router delivers exceptional single-core processing power for demanding network environments, including advanced firewall rules, queue management, VPNs, and heavy per-connection processing tasks.

With 16 Gigabit Ethernet ports and dual 10G SFP+ interfaces, the CCR2004-16G-2S+ offers flexible deployment options for both internal network distribution and high-speed uplink connectivity. Active cooling, dual redundant power supplies, and a robust 1U rackmount chassis make it a dependable solution for small to medium-sized businesses, ISPs, branch offices, and data-intensive environments.

Description:

The MikroTik CCR2004-16G-2S+ combines enterprise routing capabilities with excellent energy efficiency and strong single-core performance. It is engineered to support high-throughput networking while maintaining stable operation under heavy workloads. The router includes 4GB DDR4 RAM, dual 10G SFP+ ports, 16 Gigabit LAN ports, USB 3.0 connectivity, and RouterOS Level 6 licensing for advanced configuration flexibility. SKU MT-RBCCR2004-16G-2S+ is ideal for businesses looking for a cost-effective yet powerful networking solution capable of handling modern traffic demands.

Features:

Built for Demanding Network Performance
Unlike many traditional routers that struggle with CPU-intensive networking tasks, the CCR2004-16G-2S+ is optimized for workloads that rely heavily on single-core processing efficiency. This makes it particularly effective for:

- Advanced routing and firewall management
- Large-scale queue processing
- VPN and IPsec deployments
- Multi-user business networks
- ISP edge routing applications

- High-bandwidth uplink and downlink environments

Each group of eight Gigabit Ethernet ports connects to its own dedicated Marvell switch chip with a dedicated 10Gbps full-duplex link to the CPU. The two SFP+ ports also operate through independent 10Gbps full-duplex connections, helping eliminate bottlenecks and maximize throughput across the network.

Flexible Connectivity and Rackmount Design
The CCR2004-16G-2S+ provides a balanced combination of copper and fiber networking interfaces, making it suitable for mixed infrastructure deployments. The front-facing design allows easy access to ports, console management, and USB connectivity in rack environments.

Key connectivity options include:

- 16 x 10/100/1000 Gigabit Ethernet ports
- 2 x 10G SFP+ cages
- 1 x USB 3.0 Type-A port
- RJ45 serial console port
- Dual AC power inputs
- Active dual-fan cooling system

The integrated dual power supplies improve operational reliability and reduce downtime risk in critical business environments.

Optimized for Small and Medium Businesses
For businesses upgrading from entry-level routers or older CCR models, the MikroTik CCR2004-16G-2S+ offers a substantial improvement in processing efficiency and scalability. A common deployment approach uses the Gigabit Ethernet ports for LAN distribution while reserving the SFP+ interfaces for high-speed fiber uplinks and backbone connectivity.

Its balance between affordability and enterprise performance makes it a strong option for:

- Corporate offices
- Internet service providers
- Schools and training centers
- Security and surveillance networks
- Hospitality and retail environments
- Multi-branch network infrastructure

Hardware and System Details
The CCR2004-16G-2S+ includes enterprise-grade hardware designed for continuous operation and stable network performance.

Important technical details:

- Product code: CCR2004-16G-2S+
- Part number / SKU: MT-RBCCR2004-16G-2S+
- Architecture: ARM 64-bit
- CPU model: AL32400
- CPU cores: 4
- CPU speed: 1700 MHz
- RAM: 4GB DDR4
- Storage: 128MB NAND
- Operating system: RouterOS v7
- RouterOS license level: L6
- IPsec hardware acceleration: Yes

Power and Environmental Information
This MikroTik router is designed for stable operation in demanding environments while maintaining efficient power usage.

Technical highlights include:

- Dual AC power inputs: 100-240V
- Frequency support: 50/60Hz
- Maximum power consumption: 48W
- Power consumption without attachments: 35W
- Cooling fans: 2
- Operating temperature: -20C to 60C
- Estimated MTBF: Approximately 200,000 hours at 25C

Monitoring and Management Functions
The CCR2004-16G-2S+ includes built-in monitoring tools to assist with system management and maintenance.

Supported monitoring functions:

- CPU temperature monitoring
- PCB temperature monitoring
- Voltage monitoring
- USB power reset support

Certifications and Compliance
This MikroTik router complies with major international certification standards for business networking equipment.

Certifications include:

- CE
- EAC
- ROHS
- IP20 rated enclosure

Why Choose the MikroTik CCR2004-16G-2S+
The MikroTik CCR2004-16G-2S+ delivers a rare combination of affordability, enterprise routing performance, and efficient power usage. With strong single-core processing capabilities, dual 10G SFP+ connectivity, 16 Gigabit Ethernet ports, and advanced RouterOS functionality, it is an excellent long-term networking solution for growing businesses and professional network deployments.

Specifications:

© 2026 Respective owners and brand holders. This table has been carefully researched and generated by ComXpert International CC (http://www.comx.co.za), however, errors and omissions may occur. Only references to South Africa apply. All products are sourced in South Africa from the official suppliers and the warranty is that of the local supplier. E&OE. This table and our site's content may be used on condition that this notice and link remains intact and unaltered.

Specifications	
Product Code	RBCCR2004-16G-2S+
Specifications	
Product code	CCR2004-16G-2S+
Architecture	ARM 64bit
CPU	AL32400

CPU core count	4
CPU nominal frequency	1700 MHz
RouterOS license	6
Operating System	RouterOS (v7 only)
Size of RAM	4 GB
Storage size	128 MB
Storage type	NAND
MTBF	Approximately 200'000 hours at 25C
Tested ambient temperature	-20degreesC to 60degreesC
IPsec hardware acceleration	Yes
Powering	
Number of AC inputs	2
AC input range	100-240
Frequency (Hz)	50/60
Max power consumption	48 W
Max power consumption without attachments	35 W
FAN count	2
Ethernet	
10/100/1000 Ethernet ports	16
Fiber	
SFP+ ports	2
Peripherals	
Serial console port	RJ45
Number of USB ports	1
USB Power Reset	Yes
USB slot type	USB 3.0 type A
Max USB current (A)	0.9
Other	
CPU temperature monitor	Yes
PCB temperature monitor	Yes
Voltage Monitor	Yes
Certification & Approvals	
Certification	CE, EAC, ROHS
IP	IP20

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/RBCCR2004-16G-2S-MikroTik-CCR2004-16G-2S-16x-Gigabit-Ethernet-2x-10G-SFP-Ports-1x-p-337476.php

Images and specifications are provided for reference and are subject to change without notice. E&OE.

Terms of Use: https://www.comx-computers.co.za/terms-of-use.php
Terms of Sale: https://www.comx-computers.co.za/terms-of-sale.php

PDF generated: 2026-11-05 01:04:21.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.