Item no.: RTROM02-FCC

RTROM02-FCC - Wi-Fi 6 Hi-Performance & Open Source Router

from **387,78 EUR**

Item no.: RTROM02-FCC
shipping weight: 1.30 kg
Manufacturer: Turris Omnia

Product Description

A home router is necessary to connect you to the Internet but it is idle most of the time, just eating electricity. Why not use it for more tasks? With powerful hardware, Turris Omnia Wi-Fi 6 can handle Gigabit traffic and still be able to do much more. You can use it as a home server, NAS, print server and it even has a virtual server built-in.

Open Source

Open hardware running free operating system based on OpenWrt. It enables you to make your own software modifications and secures you top-level privacy. Having full schematics guarantees that you know what is inside. No backdoors, no calling home.

Performance

High power dual-core ARMv7 CPU at 1.6 GHz, 2 GB RAM and 8 GB eMMC means PC-like performance. The device is designed for high load and long lifespan.

Security

Secure default configuration, easy setup and automatic updates. Turris also runs a farm of honeypots, which simulates a running system and observe would-be attackers. It is possible to easily configure Omnia to redirect specific traffic to the honeypot and get records of caught attackers and their actions. And it is completely safe because the honeypot runs on Turris' server, not on your device. OpenVPN setup is also possible so you can safely reach your files, stored at home, remotely or make secure connection on public Wi-Fi networks.

Never Ending Improvements

Thanks to automatic updates and growing active community, Omnia receives new features and improvements very often. Unlike common routers, the device is getting better through the time.

High Throughput Network Setup

Omnia has three Gigabit interfaces in the processor. Thanks to good HW design you can reach a full Gigabit speed in a full duplex mode between WAN and LAN. This means your router will not slow down your Internet connection. You can also dedicate one Gigabit line to a single LAN port via a VLAN to guarantee its speed in presence of other traffic.

Extensibility

You can extend the device to work as a DLNA server, add a DVB-T tuner to stream television signal through your network, add a USB sound card or use it as an Internet radio. We even have a how-to for using a web camera as a simple burglar alarm with automatic emailing of photos. Connection of devices like thermostats, security and weather sensors, RaspberryPi, Arduino and other IoT devices is also possible. Omnia has huge HW and endless SW extensibility like:

- NAS (Network Attached Storage)
- Backup and dual connectivity
- LXC virtualization

Hardware Specification

- CPU: Marvell Armada 385, dual-core 1.6 GHz
- Memory: 2 GB DDR3
- Storage: 8 GB eMMC
- Antenna type: 2x2 MIMO omni-directional high-gain dipole (2.4 GHz), 4x4 MIMO omni-directional high-gain dipole (5 GHz)
- Antenna gain: 4x 2.4 GHz 3.5 dBi, 5 GHz 4.6 dBi
- LAN port: 5x 10/100/1000 Mbps (RJ-45)
- WAN port: 1x 10/100/1000 Mbps (RJ-45) + SFP up to 2.5 Gb
- External ports: 2x USB 3.0 (5 V, 1.5 A power output)
- Internal interfaces: 1x UART (4 pins header), 1x miniPCIe/mSATA, 1x miniPCIe (without USB and SIM lock), 1x miniPCIe (with USB and SIM lock), 1x 5 pin power connector (3V, 5V, 12V) for SATA drives, 2x 10 pin GPIO connector (GPIO, SPI, I2C, UART), 1x 20pin JTAG (CPU), 1x 10 pin programming connector (MCU)
- Button and switch: Reset, LED intensity

Appearance

- Size (width x height x depth): 280 x 145 x 180 mm (including antennas)
- Weight: 1265 g

Power Supply

- AC input: 100-240 V/1.0 A
- Power frequency: 50/60 Hz, single phase
- DC output: 12 V/3.33 A
- Power consumption: 5-40 W max. (depends on connected peripheries)

Temperature

- Operating temperature: 0°C to 40°C (40°F to 104°F)
- Storage temperature: -20°C to 60°C (-5°F to 140°F)

Specifications