Advanced EU designed & manufactured 2,5 Gbps SOHO routers
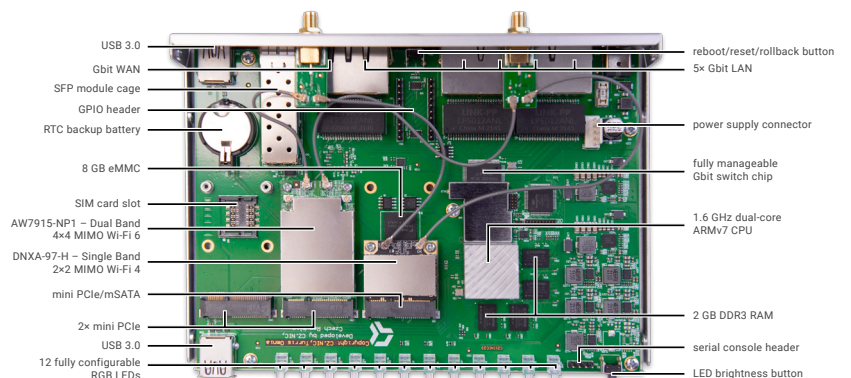
TURRIS

Turris is a hardware and software design division of CZ.NIC – Czech national domain registry and home of Czech national cybersecurity CERT team. Turris provides opensource compatible high performance scalable router solutions mainly for SMB CPE and ISP integration.
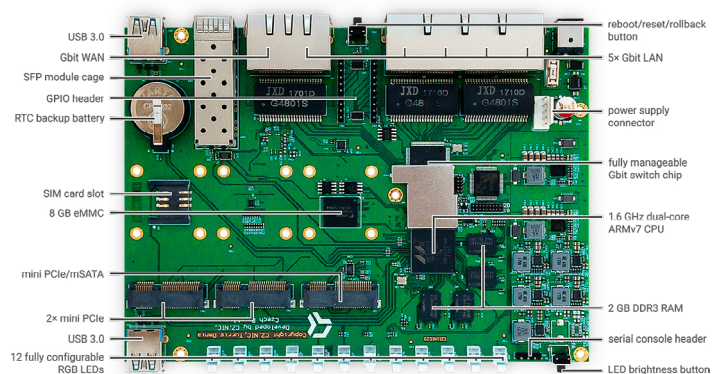
EU design and manufacturing provides flexible deliveries and possible on-demand customization. Omnia allows up to three uplink sources linked in one 2,5 Gbps device. Advanced distributed dynamic firewall Sentinel with real-time threat evaluation and honeypots enhances security of the whole network solution.

Turris Omnia product line

Omnia Wi-Fi 6

USB 3.0
Gbit WAN
SFP module cage
GPIO header
RTC backup battery
8 GB eMMC
SIM card slot
AW7915-NP1 – Dual Band 4×4 MIMO Wi-Fi 6
DNXA-97-H – Single Band 2×2 MIMO Wi-Fi 4
mini PCIe/mSATA
2× mini PCIe
USB 3.0
12 fully configurable RGB LEDs

reboot/reset/rollback button
5× Gbit LAN
power supply connector
fully manageable Gbit switch chip
1.6 GHz dual-core ARMv7 CPU
2 GB DDR3 RAM
serial console header
LED brightness button

Omnia No Wi-Fi

USB 3.0
Gbit WAN
SFP module cage
GPIO header
RTC backup battery
SIM card slot
8 GB eMMC
mini PCIe/mSATA
2× mini PCIe
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Performance

– 1,6 GHz dualcore CPU
– 2 GB RAM
– 2,5 Gbps SFP throughput
– 4×4 MIMO Wi-Fi 6
– Advanced routing with OSPF, BGP and multiple traffic control tools

Scalability

– 4G/5G compatibility via SIM slot
– 2× USB
– GPIO header for IoT
– 3× mPCIe
– 8GB eMMC

Security

– Distributed dynamic firewall with real-time updates – 5.000 daily
– IDS, Parental control, DPI
– Honeypots
– Automatic FW, SW and OS updates
– Lifelong SW support
– EU designed & manufactured without Chinese components

VPN support & throughput

– OpenVPN up to 100 Mbps
– IPsec up to 450 Mbps
– L2TP up to 500 Mbps
– Wireguard up to Mbps
– IP to IP tunnel up to 90 Mbps

Software

– Turris OS – enhanced OpenWRT
– Enabling your own Linux distribution
– LXC containers for advanced SW aplication
– Vanilla kernel
– Turris UI, LuCi, SSH configuration modes
– Snapshots enabling easy configuration scalability & changes

Applications

Company WAN

With Omnia you can manage all the necessary in multiple site router deployment – Advanced security, powerful Wi-Fi, high VPN throughput and multiple backup connectivity solutions.

Custom SW deployment

Use your own Linux distribution or deploy your own software with lxc containers and possible SSD integration with mSATA mPCIe to provide added value for your clients

ISP management interface

Link up to three connectivity uplinks – Fiber, Ethernet and 4G/5G to provide high SLA levels.

Advanced router for home users

Omnia can serve as secure NAS server, router & firewall in one complex solution.

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