

## Router Donyx RM45x4 LTE CAT.6

Industrial 4G Router  
with Support for Four LTE CAT.6 Modules,  
Wi-Fi 5, and GPS



This industrial-grade 4G router supports simultaneous operation of four LTE CAT.6 modules, delivering download speeds of up to 300 Mbps and upload speeds of up to 50 Mbps per module. The four-module configuration provides superior redundancy, load balancing, and flexible connectivity, making it ideal for mission-critical applications.

Flexible failover scenarios are built in to maintain connection stability. The router automatically switches between LTE modules if a network failure occurs. If cellular connections are unavailable, failover to Ethernet or Wi-Fi ensures uninterrupted internet access, even in the most demanding environments.

The router supports up to four SIM cards, offering redundancy at both the module and provider levels. Features like scheduled SIM management and automatic failover protect against physical SIM card failures and optimize connectivity performance.

Key hardware features include five Gigabit Ethernet ports and dual-band Wi-Fi, providing fast and reliable network access for multiple connected devices. The router also includes discrete GPI inputs for integration with industrial systems, and a hardware-integrated GPS module delivers precise location tracking, ideal for asset tracking, fleet management, and remote monitoring.

Engineered for reliability, the router operates within a wide temperature range of -40°C to +65°C and is housed in a rugged metal enclosure designed to withstand harsh industrial conditions.

The router runs on an dnxOS operating system, supporting modern encryption, tunneling protocols like OpenVPN and IPsec to ensure secure data transmission. It provides advanced features such as custom VPN configurations, diagnostics tools, and flexible scripting capabilities, tailored for industrial and enterprise use.

This combination of robust hardware and dedicated firmware delivers exceptional performance, security, and reliability, making the router an ideal choice for critical industrial and business networks.

# DONYX



## Communication Standards

- LTE CAT.6, Wi-Fi 4, Wi-Fi 5, GNSS

## Electrical Specifications

- Power supply voltage from 10 to 30 V (DC)
- Current consumption, maximum:
  - At power supply voltage +12 V – 1500 mA;
  - At power supply voltage +24 V – 750 mA;

## Physical Specifications

- Maximum dimensions (including connectors): 180 × 180 × 50 mm
- Maximum weight: 770 g
- Enclosure Material: Aluminum
- Enclosure Protection Rating: IP30
- Operating Temperature Range: from -40°C to +65°C
- Storage Temperature Range: from -40 to 50°C

## Network Functions

Routing	Static
Network protocols	PPP, PPPoE, DHCP, TCP, UDP, ARP, IPv4, ICMP, HTTP, HTTPS, TLS, SSL
Connection monitoring	Ping Reboot, Periodic Reboot, LCP and ICMP for link tracking
Firewall	Port forwarding, ZONE-based rules, pre-configured firewall rules, custom rules, NAT
DHCP	Static and dynamic IP address allocation
Network backup	VRRP; Wired, Mobile, or WiFi WAN. Supports automatic failover to an alternative connection (Automatic Failover)
Network Services	DHCP Server, NTP, DNS, SSH, SNMP

## Tunneling

OpenVPN	Ability to run one server and multiple clients simultaneously.  Encryption: Client - AES-128-CBC, AES-192-CBC, AES-256-CBC; Server - AES-128-CBC, AES-128-GCM, AES-192-CBC, AES-192-GCM, AES-256-CBC, AES-256-GCM
IPsec	IKEv1, IKEv2.  Encryption: Client - AES-128, AES-192, AES-256; Server - AES-128, AES-128, AES-192, AES-192, AES-256, AES-256
GRE	GRE TUN (Layer 3)
EoIP	MikroTik RouterOS protocol based on GRE RFC 1701
PPTP, L2TP	Server and Client mode support for L2TPv2, L2TPv3
DMVPN	Client mode operation, additional IP Security encryption
Wireguard	WireGuard tunnels and peers

## Security Features

Authentication	Pre-shared key, digital certificates, X.509 certificates
Attack prevention	DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks)
VLAN	Port and tag based VLAN separation
Access control	WiFi access control (MAC address filter)

## Hardware Specifications

Number of Cellular Modules	4 x LTE CAT.6
Processor	Quad-core ARM Cortex A7 717MHz
Dynamic RAM	512 MB
NAND Flash Memory Capacity	256 MB
Wi-Fi	2.4 GHz (802.11b/g/n), 5 GHz (802.11ac)

## Ports and Connectors

Ethernet Connector	5x LAN 10/100/1000 Mbps
SIM Card Slots	Mini SIM
CONSOLE Connector	RJ45 Console Port
Microfit4 Connector	Power
Terminal Block	RS485, 3 x GPI
RST Button	Reset Button

 Specifications may change without prior notice!