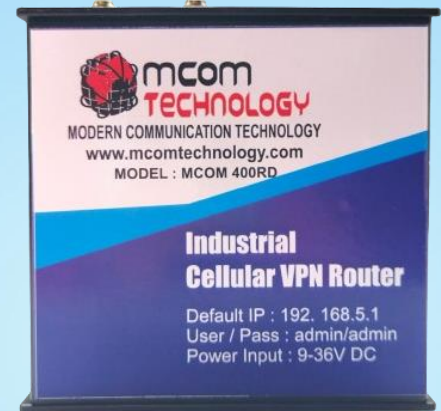


Your vision, automated



MCOM400RD

4G LTE ROUTER



The MCOM400RD is a compact and industrial-grade LTE Cat 4 Gateway Router designed to deliver reliable and secure internet connectivity for a wide range of automation and remote-access applications. Equipped with a dual SIM interface, Ethernet port, digital I/O, and a micro-USB port, it ensures continuous communication even in demanding industrial environments.

Its rugged design is supported by advanced software capabilities such as Firewall, Open VPN, IPsec, RMS, and FOTA, making it ideal for seamless remote access and monitoring of PLCs, HMIs, PCs, and other industrial devices.

➤ FEATURES

- Dual SIM port with support all major telecom operators
- 2 Analog inputs
- LTE Cat 4 with speeds up to 150 Mbps
- Auto switchable network interface: 4G/3G/2G
- Ethernet interface
- Compact size, easy integration
- Wide range of power supply voltages (9-30 VDC)

➤ SPECIFICATIONS

<u>MOBILE</u>	
Mobile module	4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps
Bridge	Direct connection (bridge) between mobile ISP and device on LAN
Status	Signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP Bytes sent/received
<u>ETHERNET</u>	
LAN	1 x RJ45 port, 10/100/1000 Mbps, supports auto MDI/MDIX
<u>NETWORK</u>	
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SSL v3, TLS, SSH, DHCP, MQTT, Wake on LAN (WOL)
Routing	Static routing
Connection monitoring	Ping Reboot, Periodic Reboot, LCP and ICMP for link inspection, Wget
Firewall	Port forwards, traffic rules, custom rules
DHCP	Static and dynamic IP allocation
DDNS	Supported >25 service providers, others can be configured manually
<u>SECURITY</u>	
Authentication	Pre-shared key, digital certificates, X.509 certificates
Firewall	Pre-configured firewall rules can be enabled via the WebUI, unlimited firewall configuration via CLI; NAT; NAT-T
Access control	Flexible access control of TCP, UDP, ICMP packets, MAC address filter

<u>VPN</u>	
Open VPN	Multiple clients and a server can run simultaneously, 12 encryption methods
Open VPN Encryption	DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC
IPsec	IKEv1, IKEv2, supports up to 5 x VPN IPsec tunnels (instances), with 5 encryption methods (DES, 3DES, AES128, AES192, AES256)
GRE	GRE tunnel
PPTP, L2TP	Client/Server services can run simultaneously
<u>MONITORING & MANAGEMENT</u>	
WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, system log, kernel log
FOTA	Firmware update from sever, automatic notification
SSH	SSH (v1, v2)
MQTT	MQTT Broker, MQTT publisher
JSON-RPC	Management API over HTTP/HTTPS
Modbus	Modbus TCP status/control
RMS	MCom Remote Management System (RMS)
<u>SYSTEM CHARACTERISTICS</u>	
CPU	ARM Cortex-A7 1.2 GHz CPU
RAM	128 MB (50 MB available for userspace)
FLASH memory	512 MB (70 MB available for userspace)

<u>FIRMWARE / CONFIGURATION</u>	
WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup, restore point
FOTA	Update FW/configuration from server
RMS	Update FW/configuration for multiple devices
Keep settings	Update FW without losing current configuration
<u>FIRMWARE CUSTOMIZATION</u>	
Operating system	RutOS (OpenLinux based Linux OS)
Supported languages	Busybox shell, Lua, C, C++
Development tools	SDK package with build environment provided
<u>INPUT/OUTPUT</u>	
Configurable I/O	2 x Configurable Digital Inputs/Outputs
Events	SMS status
<u>POWER</u>	
Connector	4 pin industrial DC power socket
Input voltage range	9 – 30 VDC (4-pin industrial socket), reverse polarity protection, surge protection > 33 VDC, 10 max
Power consumption	< 5 W
<u>OPERATING ENVIRONMENT</u>	
Operating temperature	-40 °C to 75 °C
Operating humidity	10 % to 90 % non-condensing
Ingress Protection Rating	IP30
<u>REGULATORY & TYPE APPROVALS</u>	
Regulatory	CE

PHYSICAL INTERFACES (PORTS, LEDS, ANTENNAS, BUTTONS, SIM)

Ethernet	1 x RJ45 port, 10/100/1000 Mbps
I/Os	2 x Configurable Digital Inputs/Outputs on 4 pin power connector
USB	Virtual network interface via USB
Status LEDs	3 x connection type status LEDs, 5 x connection strength LEDs, 2 x LAN status LEDs, 1x Power LED
SIM	2 x SIM slot (Mini SIM – 2FF), 1.8 V/3 V
Power	4 pin DC connector with 2 x configurable Digital Inputs/Outputs
Antenna	1 x SMA for LTE
Reset	Restore factory settings button

PHYSICAL SPECIFICATIONS

Casing material	ABS housing
Dimensions	65 mm x 72 mm x 20 mm (H x W x L)
Weight	350 g
Mounting options	DIN rail

➤ APPLICATIONS

- Industrial Automation
- Remote access of any system via LAN
- Control Systems
- Remote PLC Programing via Ethernet
- M2M communication from remote locations

MODERN COMMUNICATION TECHNOLOGY

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