M2M ROUTER

WM SYSTEMS

Basic IoT router for Safety camera, CCTV with LTE Cat.4 module

A compact, robust cellular router for safety surveillance application. Cost effective solution for secure, stable mobile connection of CCTV and IP cameras, surveillance systems even in harsh conditions. A high-quality, rugged communication device designed for use in safety and security applications.

The ideal product for gathering still images, video stream from safety cameras and sending them to a remote dispatcher center, securely, over the high-speed cellular networks.
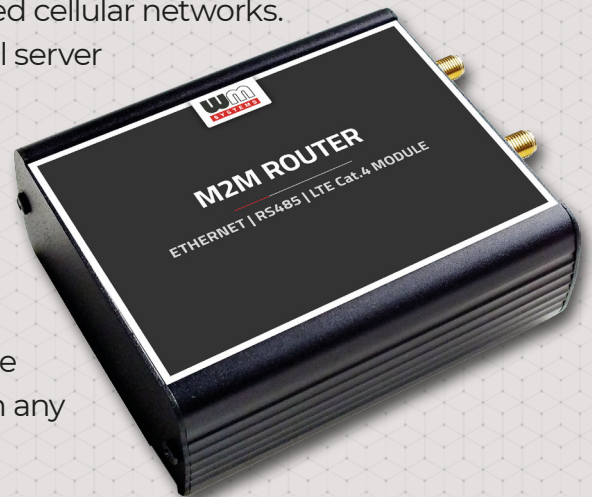The router collect data via Ethernet and send it to a central server through encrypted LTE cellular networks.
We also offer customization (protocols, interfaces, modules etc.) for large projects.

The M2M ROUTER has full remote access, monitoring and maintenance features.
On-demand OTA firmware and software upgrades may be remotely and securely uploaded to the cellular router from any point within the user's network.

The Windows-based Device Manager software allows faster deployment and guarantees the secure and proper functioning of the routers. State-of-the-art management functionalities including rapid device onboarding with bulk provisioning, easy administration, in-depth visibility of device status and, its performance metrics and security issues, logical groupings of devices into hierarchical structures for mass software and firmware updates.

MAIN FEATURES

- Transparent and secure wireless safety transmitting (still images, video stream)
- Interfaces: Ethernet port (RJ45, 10/100 Mbit, LAN), micro-USB, microSD (storage)
- Protocols: DHCP, DynDNS, IP Route, IPv4 / IPv6, (S)FTP, (S)NTP, SSHv2, HTTPS, IPsec, OpenVPN, IP passthrough
- LTE Cat.4 internet module (150/50 MBit download/upload speed)
- Operating System: OpenWrt
- User Interfaces: WebGUI/LuCi, Linux command line, UCI
- Configuration: OpenWrt web interface; optionally our Device Manager
- Management: TR-069 protocol; optionally by our Device Manager software (AES-256 encrypted)
- Watchdog (hardware monitoring), automatic network recovery
- Power: 12V, 1A power supply (9-24V)
- Enclosure/casing: robust, IP51 industrial aluminium

APPLICATION

- SOLAR / PV FARM SURVEILLANCE
- CORPORATE PARTNERS
- SAFETY (DVR, CAMERA)

M2M LTE Cat.4 ROUTER

DESIGN AND OUTFIT

- IP51 aluminum enclosure, mount to DIN-rail

COMPATIBILITY

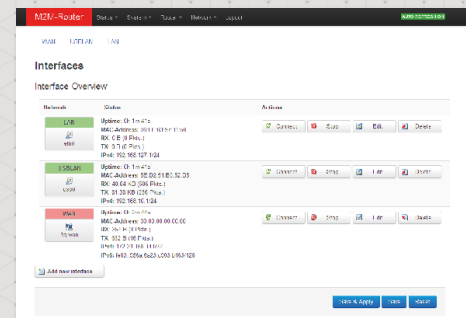- Safety camera system, CCTV / IP cameras

OPENWRT® SYSTEM

- Web user interface and Linux command line
- Protocols: DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, (S)NTP, SSHv2, HTTP(S), GRE, mGRE, IP passthrough, Firewall, IPSec, OpenVPN, TR-069

ONLINE MANAGEMENT | QoS & ANALYTICS | REMOTE FW UPDATES | CENTRAL CONTROL

ACCESSORIES

- 12V DC power adapter, external antenna, DIN-rail adapter
- You can manage the router by Device Manager® software (order option)

M2M Router®		
Power	Voltage	· 12V DC, 1A power supply (9-24VDC), 4-pins microfit power connector
	Current	· Average: 270mA 12VDC / 3.24W, 12VDC
System	Performance	· Cortex-A3 ARM 400MHz processor / 128MB memory
Communication module	Cellular technology	· LTE Cat.4 with - 3G/2G "fallback"
	Internet module	· Telit LE910C4-EU
	Bands / Frequency (MHz)	· LTE: B1(2100) / B3(1800) / B7(2600) / B8(900) / B20(800) / B28(700) · UMTS: B1(2100) / B3(1800) / B8(900) · GSM/GPRS: B3(1800) / B8(900)
	Speed (DL/UL)	· LTE FDD Cat.10 rel. 9: 150/50 Mbps · 3G (HSPA+): 42/5.76 Mbps · 2G (GSM / EDGE): 80/40 kbps
	SIM card slot	· mini SIM card (2FF type)
	Antenna connector	· 2pcs antenna connector for LTE 4G antenna (SMA, 50 Ohm)
Interface connectors	Ethernet port	· RJ45 (10/100 Mbit, Ethernet LAN)
	microUSB	· micro USB slot
	microSD	· micro SD memory card slot
User interface	System / Services	· WebGUI / LuCi® interface, OpenWrt® operation system, Linux command line, UCI · Security/Management: Firewall, diagnostic and monitoring the operation parameters · Protocols: DHCP, DynDNS, IP route, NAT, IPv4/IPv6, FTP, SFTP, SNTP time handlink, NTP time service, SSHv2, HTTPS, GRE, mGRE, IPSec, OpenVPN, IP passthrough · Management: TR-069 protocol, Device Manager® (AES-256 encrypted connection)
	Configuration	· OpenWRT® local website (local/remote configuration) · Optional: Device Manager® (mass firmware/software refresh, parameter modification)
	Indication	· 3 bi-color status LED (programmable)
Construction	Temperature range	· Operation: from -40'C to +80'C / Storage: from -40'C to +80'C at 0 to 95 rel. humidity
	Enclosure	· IP51 industrial aluminum enclosure, mount to DIN-rail/wall
	Dimensions/Weight	· 92 x 85 x 35 mm / 180gr. (without antenna and power adapter)

CE

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