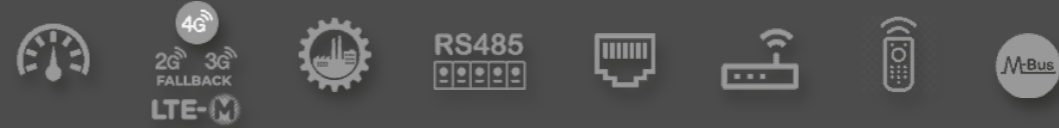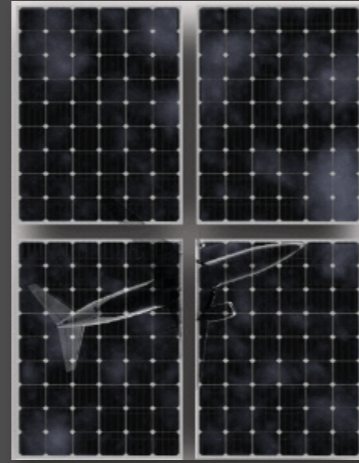# WM SYSTEMS LLc

PRODUCT CATALOG

INDUSTRIAL IoT ROUTERS

CELLULAIRE
PRODUITS

INDUSTRIAL IoT ROUTERS and DCUs

ROUTERS | GATEWAYS | DATA CONCENTRATORS

High-quality IoT and IIoT routers for industrial applications

These devices are able to manage and control complex connected environments by aggregating and transmitting sensor data, as well as translating communication protocols serving as a bridge between IoT devices and platforms.

Our multi-protocol industrial LTE Cat.4, Cat.1, Cat.M gateways can be used in many different verticals such as smart grids, building or factory automations, fleet management, security systems, etc., but some are designed for specific applications such as substation management.

There is a growing trend in industrial IoT towards the edge as is the case in many technologies. Our Linux-based routers offer the possibility of Cloud computing functionalities, as users can develop their own apps to run on them.

Data concentrators (or DCUs) have an important role in a variety of Industrial Internet of Things (IIoT) applications. They collect and aggregate data from multiple industrial devices which can be sent to central management systems.

A data concentrator is the backbone of modern Automated Metering Infrastructures (or AMI) and industrial automation projects. The versatile devices that can be mounted on a DIN rail have Ethernet, RS232, RS485 ports, digital inputs, Modbus RTU/Modbus TCP Gateway, Mbus or wireless M-Bus functions for industrial data collection and automation purposes. Data transmission can be done via an RS485 connection or the usage of the wireless mobile network. Even using a single router or data concentrator (DCU) is a very cost-effective solution for collecting data from industrial devices, energy meters (electricity, water, gas, sensors) or for monitoring devices.

These products are primarily intended for places that require high availability and for professional purposes – e.g. we recommend to use these for members of production and industry, maintenance and service providers.

Basic industrial wireless router with Cat.4 cellular module for applications demanding secure, high-speed connection

M2M ROUTER
ETHERNET | RS485 | LTE Cat.4 MODULE

HARDWARE

Mobile	LTE Cat.4 / 3G / 2G
Powering	12V DC, 1A (9-24V)
SIM	mini SIM (2FF)
Antenna connectors	2 external Antenna connector (SMA, 50 Ohm)
Ports	▪ Ethernet (RJ45, 10/100Mbit, LAN) ▪ micro-USB ▪ microSD card slot
Status LEDs	3 status LEDs
Housing / Protection rating	Rugged, robust aluminum casing / IP51
Mount and Fastening	35mm DIN-rail adapter (optional)
Operating Temperature	from -40'C to +80'C
Dimensions / Weight	92.5 x 85 x 35mm / 180 gr.

SOFTWARE

Operation system / User interface	OpenWrt® with Linux kernel v4.94 / LuCi® web user interface
Protocols	DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, (S)NTP, HTTP(S), SSHv2, (m)GRE, OpenVPN
Security	Watchdog, firewall, IPSec, TLS v1.2, TR-069
Management platform	Device Manager® software (firmware refresh, configuration, QoS, reboot, remote voice call, remote control) - order option

ONLINE MANAGEMENT   QoS & ANALYTICS   REMOTE FW UPDATES   CENTRAL CONTROL

M2M LTE Cat.4 ROUTER

NETWORK

4G LTE Cat.4 / 3G / 2G

mini SIM (2FF)

CONNECTIVITY

ETHERNET

micro-USB

microSD card slot

DESIGN

Industrial, robust design

Aluminum IP51 enclosure

DIN-rail mount

FEATURES

Transparent data sending

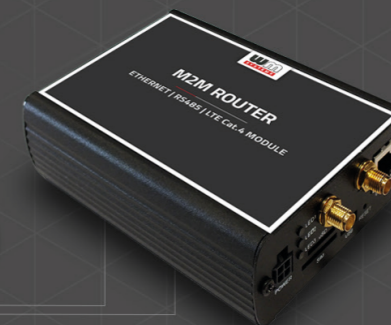for camera systems

OpenWrt / WebGUI

Device Manager platform

M2M ROUTER
ETHERNET | RS485 | LTE Cat.4 MODULE

PROTOCOL
⇌ HTTP
⇌ FTP
⇌ sFTP
⇌ SNTP

FEATURES
✓ OpenWRT   ✓ WebGUI
✓ Firewall   ✓ Device Manager
✓ VPN   ✓ 4G LTE Cat.4

M2M ROUTER
ETHERNET | RS485 | LTE Cat.4 MODULE

LED1
LED2
LED3 µSD
POWER   SIM   USB   RESET   ETHERNET

PORTS/PHYSICAL CONNECTORS
∷ Ethernet
∷ Micro USB
∷ Micro SD

Reliable and Rugged Communication Device for Smart Grid and Industrial Applications

M2M INDUSTRIAL ROUTER 2 SECURE
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET

M2M INDUSTRIAL ROUTER 2 DCU
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET / RS485

M2M INDUSTRIAL ROUTER 2 DCU MBUS
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET / RS485 / MBUS

ONLINE MANAGEMENT   QoS & ANALYTICS   REMOTE FW UPDATES   CENTRAL CONTROL

HARDWARE

Mobile	Order options: ▪ LTE Cat.1 / 450MHz / 2G ▪ LTE Cat.M / Cat.NB / 450MHz / 2G
Powering	12V DC, 1A (9-32V) / Supercapacitor
SIM	mini SIM (2FF) / Chip SIM option (MFF2)
Antenna connectors	1 external Antenna connector (SMA, 50 Ohm)
Ports	▪ Ethernet (RJ45, 10/100Mbit, LAN) ▪ micro-USB
Status LEDs	3 status LEDs
Housing / Protection rating	Rugged, robust aluminum casing / IP51
Mount and Fastening	35mm DIN-rail adapter (optional)
Operating Temperature	from -40'C to +75'C
Dimensions / Weight	92.5 x 85 x 35mm / 175 gr.

SOFTWARE

Operation system / User interface	OpenWrt® with Linux kernel v5.10 / UCI command line
Protocols	DHCP, DynDNS, IP route, IPv4/IPv6, (S)FTP, (S)NTP, SSHv2
Security	Secure Boot, Secure Key Storage (eMMC memory chip), watchdog, firewall, IPSec, TLS v1.2, supercapacitor with LastGASP, network interface connection/disconnection alarm
Management platform	Device Manager® software (firmware refresh, configuration, QoS, reboot, remote control)

M2M INDUSTRIAL ROUTER 2 SECURE

NETWORK

4G LTE Cat.1 / 450MHz / 2G

4G LTE Cat.M / Cat.NB / 450MHz / 2G

mini SIM / Chip SIM (MFF2)

CONNECTIVITY

ETHERNET

USB Ethernet interface

DESIGN

Industrial, robust design

Aluminum IP51 enclosure

DIN-rail mount

FEATURES

Secure Boot

Secure Key Storage

Transparent data sending

Command Line (SSHv2)

Device Manager platform

M2M INDUSTRIAL ROUTER 2 SECURE
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET

PROTOCOL

⇌ DHCP	⇌ SSHv2
⇌ FTP / sFTP	⇌ TLS v1.2
⇌ NTP / SNTP	

FEATURES

✓ OpenWRT	✓ SecureBOOT
✓ Firewall, IPSec	✓ Device Manager
✓ eMMC chip	✓ LTE Cat.1 / 450 / 2G or LTE Cat.M / Cat.NB / 450 with 2G "fallback"

PORTS/PHYSICAL CONNECTORS

:: Ethernet	:: Micro USB
:: Mini SIM / Chip SIM (MFF2)	

LED1
LED2
LED3
POWER   SIM   USB   RESET   ETHERNET

Reliable and Rugged Communication Device for Smart Grid and Industrial Applications

HARDWARE

Mobile	Order options: ▪ LTE Cat.1 / 450MHz / 2G ▪ LTE Cat.M / Cat.NB / 450MHz / 2G
Powering	12V DC, 1A (9-32V) / Supercapacitor
SIM	mini SIM (2FF) / Chip SIM option (MFF2)
Antenna connectors	1 external Antenna connector (SMA, 50 Ohm)
Ports	▪ Ethernet (RJ45, 10/100Mbit, LAN, Modbus TCP) ▪ RS485 (Modbus RTU) ▪ micro-USB
Status LEDs	3 status LEDs
Housing / Protection rating	Rugged, robust aluminum casing / IP51
Mount and Fastening	35mm DIN-rail adapter (optional)
Operating Temperature	from -40'C to +75'C
Dimensions / Weight	92.5 x 85 x 35mm / 175 gr.

SOFTWARE

Operation system / User interface	OpenWrt® with Linux kernel v5.10 / LuCi® web user interface, UCI command line
Protocols	DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, (S)NTP, HTTP(S), SSHv2, VPN
Security	Secure Boot, Secure Key Storage (eMMC memory chip), watchdog, firewall, IPSec, TLS v1.2, supercapacitor with LastGASP, network interface connection/disconnection alarm
Data acquisition	Reading PLC registers using Modbus, sending data to the data center through MQTT
Management platform	Device Manager® software (firmware refresh, configuration, QoS, reboot, remote voice call, remote control) - order option

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

M2M INDUSTRIAL ROUTER 2 DCU

NETWORK

4G LTE Cat.1 / 450MHz / 2G

4G LTE Cat.M / Cat.NB / 450MHz / 2G

mini SIM / Chip SIM (MFF2)

CONNECTIVITY

ETHERNET / Modbus TCP

RS485 / Modbus RTU

USB Ethernet interface

DESIGN

Industrial, robust design

Aluminum IP51 enclosure

DIN-rail mount

FEATURES

Secure Boot

Secure Key Storage

Data acquisition

OpenWrt / WebGUI

Device Manager platform

PROTOCOL

⇄ DHCP, DynDNS	⇄ SSHv2
⇄ FTP / sFTP	⇄ TLS v1.2
⇄ NTP / SNTP	⇄ Modbus TCP, RTU
⇄ HTTPS	⇄ MQTT

FEATURES

✓ OpenWRT	✓ SecureBOOT
✓ Firewall	✓ Device Manager
✓ IPSec, OpenVPN	✓ LTE Cat.1 / 450 / 2G or
✓ eMMC chip	LTE Cat.M / Cat.NB / 450 with 2G "fallback"

PORTS/PHYSICAL CONNECTORS

∷ Ethernet	∷ Micro USB
∷ RS485	
∷ Mini SIM / Chip SIM (MFF2)	

Advanced industrial router with high-end DCU features

M2M INDUSTRIAL ROUTER 2 DCU MBUS
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET / RS485 / MBUS

M2M INDUSTRIAL ROUTER 2 DCU
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET / RS485

M2M INDUSTRIAL ROUTER 2 SECURE
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET

HARDWARE

Mobile	Order options: ▪ LTE Cat.1 / 450MHz / 2G ▪ LTE Cat.M / Cat.NB / 450MHz / 2G
Powering	12V DC, 1A (9-32V) / Supercapacitor
SIM	mini SIM (2FF) / Chip SIM option (MFF2)
Antenna connectors	1 external Antenna connector (SMA, 50 Ohm)
Ports	▪ Ethernet (RJ45, 10/100Mbit, LAN, Modbus TCP) ▪ RS485 (Modbus RTU) ▪ MBus ▪ micro-USB
Status LEDs	3 status LEDs
Housing / Protection rating	Rugged, robust aluminum casing / IP51
Mount and Fastening	35mm DIN-rail adapter (optional)
Temperature / Dimensions / Weight	Operating temperature from -40'C to +75'C / 92.5 x 85 x 35mm / 175 gr.

SOFTWARE

Operation system / User interface	OpenWrt® with Linux kernel v5.10 / LuCi® web user interface, UCI command line
Protocols	DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, (S)NTP, HTTP(S), SSHv2, VPN, MQTT
Security	Secure Boot, Secure Key Storage (eMMC memory chip), watchdog, firewall, IPSec, TLS v1.2, supercapacitor with LastGASP, network interface connection/disconnection alarm
Data acquisition	Reading PLC registers using Modbus, reading meter data using the MBus (up to 250 devices), optional wireless Mbus (up to 1 000 devices) sending data to the data center
Management platform	Device Manager® software (firmware refresh, configuration, QOS, reboot) - order option

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

M2M INDUSTRIAL ROUTER 2 DCU MBUS

NETWORK

4G LTE Cat.1 / 450MHz / 2G

4G LTE Cat.M / Cat.NB / 450MHz / 2G

mini SIM / Chip SIM (MFF2)

CONNECTIVITY

ETHERNET / Modbus TCP

RS485 / Modbus RTU

MBus / Optional wireless MBus

USB Ethernet interface

DESIGN

Industrial, robust design

Aluminum IP51 enclosure

DIN-rail mount

FEATURES

Secure Boot

Secure Key Storage

Data acquisition

OpenWrt / WebGUI

Device Manager platform

M2M INDUSTRIAL ROUTER 2 DCU MBUS
LTE Cat.1 / LTE 450 MHz
WITH 2G FALLBACK
ETHERNET / RS485 / MBUS

PROTOCOL

⇄ DHCP, DynDNS	⇄ SSHv2
⇄ FTP / sFTP	⇄ TLS v1.2
⇄ NTP / SNTP	⇄ Modbus / Mbus
⇄ HTTPS	⇄ MQTT

FEATURES

✓ OpenWRT	✓ SecureBOOT
✓ Firewall	✓ Device Manager
✓ IPSec, OpenVPN	✓ LTE Cat.1 / 450 / 2G or
✓ eMMC chip	LTE Cat.M / Cat.NB / 450 with 2G "fallback"

PORTS/PHYSICAL CONNECTORS

∷ Ethernet	∷ Micro USB
∷ RS485	∷ Mbus
∷ Mini SIM / Chip SIM (MFF2)	

Industrial cellular router, gateway and data concentrator developed specifically for IoT and IIoT applications

HARDWARE

Mobile	Order options: ▪ LTE Cat.1 / 3G / 2G ▪ LTE Cat.1 / 2G
Powering	100..230V AC (can be ordered also with 12..24V DC power input) / Supercapacitor
SIM	mini SIM (2FF)
Antenna connectors	2 external Antenna connector (SMA, 50 Ohm)
Ports	▪ 4 Ethernet (RJ45, 10/100Mbit, LAN) ▪ RS485 ▪ 2 Digital Input ▪ micro-USB ▪ microSD
Status LEDs	9 connectivity status LEDs, 4 network signal strength LEDs
Housing / Protection rating	Plastic (ABS) casing / IP51
Mount and Fastening	built-in 35mm DIN-rail mount
Operating Temperature	from -35'C to +55'C
Dimensions / Weight	150 x 150 x 58mm / 460 gr. (without terminal cover: 150 x 130 x 58mm / 410 gr.)

SOFTWARE

Operation system / User interface	OpenWrt® with Linux kernel v4.94 / LuCi® web user interface, UCI command line
Protocols	DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, (S)NTP, HTTP(S), SSHv2, IP passthrough, IPSec, OpenVPN, Modbus TCP, Modbus RTU, Modbus Gateway, MQTT, LwM2M
Security	Watchdog, firewall, IEE 802.1x and AES128/AES256 encryption, supercapacitor/LastGASP
Data acquisition	Data collection on via TCP/IP Gateway (Scada), data sending by LwM2M or MQTT
Management platform	SNMPv3, Device Manager® software (firmware refresh, configuration, QoS, reboot, remote voice call, remote control) - order option

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

M2M ROUTER PRO4

NETWORK

4G LTE Cat.1 / 3G / 2G

4G LTE Cat.1 / 2G

mini SIM (2FF)

CONNECTIVITY

4 ETHERNET

RS485/Modbus

2 Digital Input

micro-USB

DESIGN

Industrial, robust design

IP51 enclosure, sealable

DIN-rail mount (built-in)

FEATURES

microSD card slot

Data acquisition

OpenWrt / WebGUI

Device Manager platform

FEATURES

✓ IP51, sealable
✓ DIN-rail mount
✓ OpenWRT
✓ Firewall
✓ VPN
✓ WebGUI
✓ Device Manager

PORTS/PHYSICAL CONNECTORS

:: 4x Ethernet   :: RS485/Mbus
:: 2X SIM   :: Micro USB
:: Digital Input   :: Micro SD

PROTOCOL

⇌ HTTP
⇌ FTP
⇌ sFTP
⇌ SNTP
⇌ MODBUS
⇌ Mbus
⇌ MQTT etc.

Data concentrator with MBus feature for smart metering application and industrial automation

M2M PRO4 DCU

HARDWARE

Mobile	LTE Cat.4 / 3G / 2G
Powering	100..230V AC (can be ordered also with 12..24V DC power input) / Supercapacitor
SIM	mini SIM (2FF)
Antenna connectors	2 external Antenna connector (SMA, 50 Ohm)
Ports	▪ 4 Ethernet (RJ45, 10/100Mbit, LAN) ▪ RS485 ▪ MBus ▪ 2 Digital Input ▪ micro-USB ▪ microSD
Status LEDs	9 connectivity status LEDs, 4 network signal strength LEDs
Housing / Protection rating	Plastic (ABS) casing / IP51
Mount and Fastening	built-in 35mm DIN-rail mount
Operating Temperature	from -35'C to +55'C
Dimensions / Weight	150 x 150 x 58mm / 460 gr. (without terminal cover: 150 x 130 x 58mm / 410 gr.)

SOFTWARE

Operation system / User interface	OpenWrt® with Linux kernel v4.94 / LuCi® web user interface, UCI command line
Protocols	DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, (S)NTP, HTTP(S), SSHv2, IP passthrough, IPSec, OpenVPN, Modbus TCP, Modbus RTU, Modbus Gateway, MQTT, LwM2M
Security	Watchdog, firewall, IEE 802.1x and AES128/AES256 encryption, supercapacitor/LastGASP
Data acquisition	Data collection on via TCP/IP Gateway (Scada) and MBus, data sending by LwM2M,MQTT
Management platform	SNMPv3, Device Manager® (FW refresh, configuration, QoS, remote control) - order option

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

M2M ROUTER PRO4 DCU MBUS

NETWORK

4G LTE Cat.1 / 3G / 2G

4G LTE Cat.1 / 2G

mini SIM (2FF)

CONNECTIVITY

4 ETHERNET

RS485/Modbus

2 Digital Input

MBus

micro-USB

DESIGN

Industrial, robust design

IP51 enclosure, sealable

DIN-rail mount (built-in)

FEATURES

microSD card slot

Data acquisition

OpenWrt / WebGUI

Device Manager platform

FEATURES

M2M Router PRO4

✓ IP51, sealable
✓ DIN-rail mount
✓ OpenWRT
✓ Firewall
✓ VPN
✓ WebGUI
✓ Device Manager

PORTS/PHYSICAL CONNECTORS

:: 4x Ethernet	:: RS485/Mbus
:: 2X SIM	:: Micro USB
:: Digital Input	:: Micro SD

PROTOCOL

M2M Router PRO4

⇄ HTTP
⇄ FTP
⇄ sFTP
⇄ SNTP
⇄ MODBUS
⇄ Mbus
⇄ MQTT etc.

Cellular based relay switch for universal industrial applications

HARDWARE

Mobile	Order options: ▪ 4G LTE Cat.1 / 3G / 2G ▪ LTE Cat.M / Cat.NB with 2G "fallback"
Powering	~100..240V AC ±10%, 50-60Hz ±5%
SIM	mini SIM (2FF)
Antenna connectors	1 Antenna connector (SMA, 50 Ohm)
Ports	▪ Ethernet (RJ45, 10/100Mbit, LAN) ▪ RS485 (isolated, for meters) ▪ P1 interface (RJ45, for meters) with 5V DC power output ▪ microSD card slot
Relay switching	4 latching relays (2pcs: COM, NC and 2pcs: COM, NC, NO) / 250VAC, 50Hz-60Hz / 16A
Housing / Mounting / LEDs	Plastic (ABS) IP52 casing / built-in mounting / 5 status LEDs (operation and relays)
Operating Temperature	from -40'C to +85'C
Dimensions / Weight	175 x 104 x 60mm / 420 gr.

SOFTWARE

Operation system / UI / Management	OpenWrt® with Linux kernel v4.94 / LuCi® web user interface, Device Manager platform
Operation	Scalable Smart Grid control and Public Lighting systems control: on-demand / scheduled, data sending to Concordia software (by OSLP protocol)
Protocols	DHCP, DynDNS, IP route, NAT, IPv4/IPv6, IP passthrough, HTTP(S), SSHv2, IEC 1107, OSLP
Security	Watchdog, firewall, supercapacitor (outage management), time zones, handling daylight saving, continuous monitoring, alerts, IPSec, TLS v1.2

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

M2M INDUSTRIAL ROUTER CONTROL BOX

NETWORK

4G LTE Cat.1 / 3G / 2G

LTE Cat.M / Cat.NB / 2G

mini SIM (2FF)

CONNECTIVITY

ETHERNET

RS485

P1 Interface (RJ45) - 5VDC power

4 Relays (2-3 way switching)

microSD card slot

DESIGN

IP52 enclosure, built-in mounting

FEATURES

Street Lighting / Load Management

Supercapacitor

OpenWrt / WebGUI

IEC 1107 / OSLP / TLS

COMPATIBILITY

▣ Street lighting cabinet connection, relay control

PROTOCOL

⇄ Transparent
⇄ IEC1107
⇄ TLS
⇄ OSLP

FEATURES

✓ Central switching/Relay control
✓ AC powered
✓ Supercap / LastGASP
✓ Device Manager
✓ Surge protection
✓ Load Management
✓ IP52 enclosure

PORTS/PHYSICAL CONNECTORS

⊞ Ethernet
⊞ RS485
⊞ P1 interface (RJ45)
⊞ 4pcs Relays (with 2 switch modes)
⊞ micro SD card

Compact, 1M size, easy to install industrial router. Mountable to a DIN-rail

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

# HARDWARE

Mobile	Order options: ▪ LTE Cat.4 / 3G / 2G ▪ LTE Cat.1 with 2G or 2G/3G "fallback" ▪ LTE Cat.M / Cat. NB with 2G "fallback" feature
Powering	12V DC (9-28V)
SIM	mini SIM (2FF)
Antenna connectors	1 external Antenna connector (SMA, 50 Ohm)
Ports	▪ Ethernet (RJ45, 10/100Mbit, LAN) ▪ RS232 ▪ RS485 ▪ Digital Input
Status LEDs	7 status LEDs
Housing / Protection rating	Plastic (ABS) casing / IP31
Mount and Fastening	built-in 35mm DIN-rail mount
Operating Temperature	from -20'C to +70'C
Dimensions / Weight	90 x 62 x 17.5mm / 45 gr. (without DIN rail fastener: 98 x 62 x 17.5mm)

SOFTWARE

Operation system / User interface	OpenWrt® with Linux kernel v5.10 / LuCi® web user interface, UCI command line
Protocols	DHCP, DynDNS, IP route, NAT, IPv4/IPv6, (S)FTP, (S)NTP, IP passthrough, HTTP(S), OpenSSH, OpenSSL
Security	Watchdog, firewall, IPSec, OpenVPN, TLS 1.2
Management platform	SNMPv3, Device Manager® software (firmware refresh, configuration, QoS, reboot, remote voice call, remote control) - order option

INDUSTRIAL DIN RAIL ROUTER

NETWORK

4G LTE Cat.4 / 3G / 2G

4G LTE Cat.1 / 2G

LTE Cat.M / Cat.NB with 2G and 450MHz options

mini SIM (2FF)

CONNECTIVITY

ETHERNET

RS232

RS485

Digital Input

DESIGN

Modular 1U design

IP31 enclosure

DIN-rail mount (built-in)

FEATURES

Transparent data sending

OpenWrt / WebGUI

Security features

Device Manager platform

COMPATIBILITY

▪ Cost-effective solution to connect multiple industrial devices, energy meters
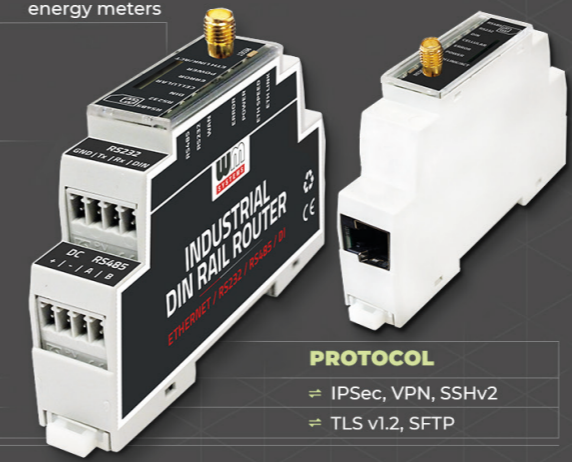
PROTOCOL

⇄ IPSec, VPN, SSHv2

⇄ TLS v1.2, SFTP

FEATURES

✓ LTE Cat.4 / 3G / 2G, LTE Cat.1 / 2G or LTE Cat.M / Cat.NB modules

✓ DC powered

✓ OpenWRT with WebGUI

✓ Device Manager

✓ 35mm DIN rail fixation

✓ IP31 plastic case

PORTS/PHYSICAL CONNECTORS

▫ RS232 port

▫ RS485 port

▫ Ethernet (RJ45, LAN)

▫ Digital (logical) input

▫ DC power input

CELLULAR PRODUCTS

DEVICE MANAGEMENT

DEVICE MONITORING | CONFIGURATION | SECURE FIRMWARE UPDATES | ALARMS, EVENTS, REPORTS

The remote management and maintenance of an IIoT solution can be a real challenge. Improve the network availability and operational efficiency of your fleet!

The remote management and maintenance of an IIoT solution can be a real challenge. Device Manager is a central management application for our cellular routers, metering modems, switches and transmitters. Improve the network availability and operational efficiency of your fleet!

Device Manager is a solution for remote device and gateway management which allows faster deployment and guarantees the secure and proper functioning of IoT devices after they have been deployed.

Our remote device management offers state-of-the-art management functionalities including rapid device onboarding with bulk provisioning, easy administration, in-depth visibility of device status, its performance metrics and security issues, logical groupings of devices into hierarchical structures for mass software and firmware updates.

The Microsoft® Windows® based application hosted on-premise for high security and continuous remote management of IoT devices (routers, modems , IoT switches, etc.). Ideal for enterprise or government deployments with strict ICT policies.

Optimized for Large Scale Enterprise Deployments
Full-fledged monitoring solution, by design optimized for enterprise device management – with features highly appreciated by our utility clients and telco partners. For example, it automatically imports user access control and permissions from Microsoft® Active Directory® for authentication.

Designed to allow easy addition of new communication servers it provides maximum scalability.
Most industrial IoT deployments involve a huge number of devices. Large scale operations like these have to be optimized in order to allow faster time-to-market. The time spent on the deployment of each device adds up.

Our devices can be ordered with the Device Manager application pre-configured, so as soon as they are connected they are available in the remote management platform. Deployment time can be reduced from 15-20 minutes per device to 1-2 minutes.

Device Manager®

PRODUCTS / DEVICE MANAGER

Our Device Manager solution is designed to streamline remote management and maintenance of our devices, ensuring fast and secure deployment and optimal device performance throughout their lifecycle.

Equipped with cutting-edge management features, such rapid device onboarding with bulk provisioning, easy administration and comprehensive visibility of device status and performance metrics, our remote device management offers unmatched support for large-scale enterprise device management.

Device Manager is a Microsoft® Windows® based, central management application for our cellular routers, metering modems, data concentrators, IoT switches and transmitters.

ONLINE MANAGEMENT — **QoS & ANALYTICS** — **REMOTE FW UPDATES** — **CENTRAL CONTROL**

DEVICE MANAGER

FEATURES

Remote Management

Device Configuration

Managing Remote Operations

QoS Monitoring

Alarms, events, reports

SOFTWARE

MIcrosoft Windows® client- and server application with database

Microsoft Active Directory® compatible

Security: AES encryption, TLS certificate keys

DESIGN

Scalability

Full-fledged monitoring

Quick optimalization of device operation properties

Easy firmware deployment

SUPPORTED

M2M Routers

M2M Industrial 2 Routers

M2M PRO4 Router DCUs

WM-E metering modems

WM-i data logger

HOSTED ON-PREMISE FOR HIGH-SECURITY

The Device Manager delivers exceptional data protection and security for sensitive equipment and information. This solution is specifically optimized for extensive enterprise deployments and is highly valued by our utility clients and telecom partners. Ideal for enterprise or government deployments with strict ICT policies.

OPTIMIZED FOR LARGE SCALE ENTERPRISE DEPLOYMENTS

Our Device Manager significantly reduces the time necessary to do bulk FW updates, decreasing it from 15-20 minutes per device to a mere 1-2 minutes.

This efficiency boost enables involved businesses to concentrate on growth and innovation, maximizing their operational effectiveness.

Improve the network availability, management and operational efficiency of your device fleet remotely!

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