

TRM250 CEHILE

TRB255 CEIM 3

CTELTONIKA

WTELTONIKA

RIIT

STELTONIKA

TSW100

TTELTONIK

2020 JULY NETWORKS **PRODUCTS CATALOG**



-- 16++

RELIABILITY

OUR FOCUS

EASE OF USE **SECURITY**

Teltonika Networks is a global provider of IoT & IIoT equipment based in Lithuania, Europe, with offices situated across four continents. During more than two decades of R&D, product development and manufacturing of IoT & M2M industrial networking devices, we have created a comprehensive product portfolio for the most challenging Industry 4.0 connectivity applications. Teltonika Networks controls all the stages of the product development life cycle, allowing it to be fast and flexible in reacting to market demands and changes while offering devices that are secure, reliable, and easy to use.

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TRM240

USB

INDUSTRIAL CELLULAR MODEM

TRM240 is an Industrial grade USB LTE Cat 1 Modem with rugged housing and external antenna for better signal coverage. This product is perfect for upgrading existing industrial equipment with cost-efficient LTE connectivity.

CONNECTIVITY

4G/LTE (Cat 1), 3G, 2G

EFFICIENT

DURABLE

Rugged aluminium housing

COMPACT

Small size, easy installation

HARDWARE

Mobile	4G/LTE (Cat 1), 3G, 2G
Powering option	microUSB, 5 VDC
SIM	1 x Internal SIM holder (2FF)
Antenna connectors	1 x SMA for mobile
USB	1 x Micro USB slave
Status LEDs	1 x LTE, 1 x Network, 1 x Power
Ingress protection rating	IP30
Operating humidity	10 % to 90 % non-condensing
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rail r
Dimensions (W x H x D)	75 x 25 x 65 mm
Weight	125 g

SOFTWARE

Network manager	Windows 7/8/8.1/10 Linux distributions
USB serial driver	Windows 7/8/8.1/10 Windows CE 5.0/6.0 Linux 2.6~5.4 Android 4.x/5.x/6.x/7.x/8.x/9.x
RIL driver	Android 4.x/5.x/6.x/7.x/8.x/9.x
NDIS driver	Windows 7/8/8.1/10
Gobinet driver	Linux 2.6~5.4
QMI_WWAN driver	Linux 3.4~5.4
Control via AT commands	3GPP TS27.007 and enhanced AT c

EASY TO USE

Interface for internet accsess

5



mounting option

commands



TRM250

INDUSTRIAL CELLULAR MODEM

TRM250 is an Industrial grade USB LTE Cat-M1/NB-IoT/EGPRS Modem with rugged housing and external antenna for better signal coverage. This product is perfect for providing cost-efficient Internet connectivity in remote monitoring applications.

CONNECTIVITY

4G/LTE (Cat M1), NB-IoT, 2G



DURABLE

Rugged aluminum housing

COMPACT

Small size, easy installation

USB Interface for internet accsess

EASY TO USE

Controlled using Network manager

HARDWARE

Powering option microUSB, 5 VDC	Mobile 4G/LTE (Cat M1), NB-IoT, 2G
CIM 1 v Internal CIM balder (200)	
Silvi I X IIILEITIAI SIIVI NOIQER (ZFF)	
Antenna connectors 1 x SMA for mobile	Powering optionmicroUSB, 5 VDCSIM1 x Internal SIM holder (2FF)
	Powering optionmicroUSB, 5 VDCSIM1 x Internal SIM holder (2FF)Antenna connectors1 x SMA for mobile
Antenna connectors 1 x SMA for mobile	Powering option microUSB, 5 VDC SIM 1 x Internal SIM holder (2FF) Antenna connectors 1 x SMA for mobile USB 1 x Micro USB slave
Antenna connectors 1 x SMA for mobile USB 1 x Micro USB slave	Powering optionmicroUSB, 5 VDCSIM1 x Internal SIM holder (2FF)Antenna connectors1 x SMA for mobileUSB1 x Micro USB slaveStatus LEDs1 x Network, 1 x Power
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CIM 1 v Internal CIM halder (2FF)	Powering option microUSB, 5 VDC

SOFTWARE

Network manager	Windows 7/8/8.1/10 Linux distributions
USB serial driver	Windows 7/8/8.1/10 Windows CE 5.0/6.0 Linux 2.6~5.4 Android 4.x/5.x/6.x/7.x/8.x/9.x
RIL driver	Android 4.x/5.x/6.x/7.x/8.x/9.x
NDIS driver	Windows 7/8/8.1/10
Gobinet driver	Linux 2.6~5.4
QMI_WWAN driver	Linux 3.4~5.4
Control via AT commands	3GPP TS27.007 and enhanced AT c



mounting option

commands

Mobile	4G/LTE (Cat 4), 3G, 2G
CPU	Qualcomm, ARM Cortex A7, 1.2
Memory	512 MBytes Flash (70 MBytes for
Powering option	4pin power socket, 9-30 VDC
SIM	1 x Internal SIM holder (2FF)
Antenna connectors	1 x SMA for mobile
Ethernet	1 x 10/100/1000 Ethernet port
Inputs/Outputs	On 4pin socket: 2 x Digital input.
Other	1 x Micro USB slave
Status LEDs	3 x Connection type, 5 x Signal s
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	75 x 25 x 65 mm
Weight	134 g

SOFTWARE

Operating system	RutOS
Mobile features	Auto APN, Band lock, SIM switch,
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DN
Firewall	Port forward, Traffic rules, Custon Unlimited firewall configuration v
Security	DDOS prevention (SYN flood pro scan prevention (SYN-FIN, SYN-RS
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SN
Connection monitoring	Ping Reboot, Wget reboot, Period
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
SMS features	SMS status, SMS configuration, Se to HTTP, SMS to SMS, scheduled S
Services	DDNS, VRRP, Wake On Lan (WOL)

TRB140

INDUSTRIAL RUGGED LTE GATEWAY

Ultra-small, lightweight and energy efficient IoT device equipped with mission-critical LTE connectivity, Gigabit Ethernet interface and Linux environment offering a high degree of customization. TRB140 is perfect for projects and applications where a single device must be upgraded with reliable and secure Internet connectivity.

CONNECTIVITY

4G/LTE (Cat 4), 3G, 2G

9-30V

Wide range of supported power supply voltages

DURABLE

40 CEEM

Rugged aluminum housing

COMPACT

Small size, easy installation

RUTOS

Easy to use, secure and feature rich OpenWRT based operating system

RMS

Compatible with Teltonika Remote Management System



GHz

or userspace), 128 MBytes RAM (50 MBytes for userspace)

t/Digital open collector output (configurable)

strength, 2 x Ethernet, 1 x Power

ail mounting option

, Operator black/white list, Data/SMS limits

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, DHCP, Telnet

om rules, Pre-configured firewall rules, DMZ, NAT, NAT-T, NAT helpers, via CLI

otection, SSH attack prevention, HTTP/HTTPS attack prevention), Port IST, X-mas, NULL flags, FIN scan attacks)

Ρ

NMP, JSON-RPC, MQTT, RMS

dic Reboot, LCP and ICMP for link inspection

ub, Cloud of Things, Cumulocity, ThingWorx

Send/Read SMS via HTTP POST/GET, EMAIL to SMS, SMS to Email, SMS SMS, SMS autoreply

L), WEB filter, UPNP, Traffic Logging

Mobile	4G/LTE (Cat 1), 3G, 2G
CPU	Qualcomm, ARM Cortex A7, 1.2
Memory	512 MBytes Flash (70 MBytes fo
Powering option	4pin power socket, 9-30 VDC
SIM	1 x Internal SIM holder (2FF)
Antenna connectors	1 x SMA for mobile
Inputs/Outputs	On 4pin socket: 2 x Digital input On 16pin socket: 1 x Isolated inp 1 x Latching relay output, 1 x No
Other	1 x Micro USB slave
Status LEDs	3 x Connection type, 5 x Signal s
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	75 x 25 x 65 mm
Weight	136 g

SOFTWARE

Operating system	RutOS
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, D
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TF
Monitoring and Management	WEB UI, CLI, SSH, SMS, TR-069, SI
Connection monitoring	Ping Reboot, Wget reboot, Period
Cloud solutions	RMS, FOTA, Telenor, Azure IoT H
Services	DDNS, VRRP, WEB filter, UPNP, T

TRB141

INDUSTRIAL RUGGED GPIO LTE GATEWAY

Industrial and small LTE Cat 1 Gateway equipped with multiple Inputs/Outputs and MicroUSB port. Compact design makes this Gateway perfect for applications where devices must be remotely managed using I/O's.

CONNECTIVITY

4G/LTE (Cat 1), 3G, 2G

9-30V

Wide range of supported power supply voltages

DURABLE

Rugged aluminum housing

COMPACT

Small size, easy installation

//

Wide range of multiple Inputs/Outputs for remote monitoring and control

RMS

Compatible with Teltonika Remote Management System



GHz

or userspace), 128 MBytes RAM (50 MBytes for userspace)

ıt/Digital open collector output (configurable) nput, 1 x Single wire input, 1 x Analog input (with 4-20mA capability), lon-latching relay output, 2 x Dry/Wet input (configurable)

strength, 1 x Power

il mounting option

DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, DHCP, Telnet

Ρ

SNMP, JSON-RPC, MQTT, RMS

odic Reboot, LCP and ICMP for link inspection

Hub, Cloud of Things, Cumulocity, ThingWorx

Traffic Logging



Mobile	4G/LTE (Cat 1), 3G, 2G
CPU	Qualcomm, ARM Cortex A7, 1.2
Memory	512 MBytes Flash (70 MBytes fo
Powering option	4pin power socket, 9-30 VDC
SIM	1 x Internal SIM holder (2FF)
Antenna connectors	1 x SMA for mobile
Inputs/Outputs	On 4pin socket: 2 x Digital input
Serial	1 x RS232
Other	1 x Micro USB slave
Status LEDs	3 x Connection type, 5 x Signal s
Operating temperature	-40° C to 75° C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	75 x 25 x 65 mm
Weight	135 g

SOFTWARE

NTP, DI
-069, SI
, Perioc
e loT Hi
'U mast
, NTRIP,

TRB142

INDUSTRIAL RUGGED LTE RS232 GATEWAY

Ultra-small, lightweight and energy efficient IoT device equipped with mission-critical LTE connectivity. TRB142 comes with a widely used RS232 Industrial interface for remote device management.

CONNECTIVITY

4G/LTE (Cat 1), 3G, 2G

9-30V

Wide range of supported power supply voltages

DURABLE

42 CETHI

Rugged aluminum housing

COMPACT

Small size, easy installation

SERIAL

Equipped with RS232 for serial communication

RMS

Compatible with Teltonika Remote Management System



GHz

or userspace), 128 MBytes RAM (50 MBytes for userspace)

t/Digital open collector output (configurable)

strength, 1 x Power

ail mounting option

DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, DHCP, Telnet

SNMP, JSON-RPC, MQTT, RMS

odic Reboot, LCP and ICMP for link inspection

Hub, Cloud of Things, Cumulocity, ThingWorx

ster, RTU gateway, Modbus over MQTT

P, Modbus

Mobile	4G/LTE (Cat 1), 3G, 2G
CPU	Qualcomm, ARM Cortex A7, 1.2
Memory	512 MBytes Flash (70 MBytes for
Powering option	4pin power socket, 9-30 VDC
SIM	1 x Internal SIM holder (2FF)
Antenna connectors	1 x SMA for mobile
Inputs/Outputs	On 4pin socket: 2 x Digital input.
Serial	1 x RS485
Other	1 x Micro USB slave
Status LEDs	3 x Connection type, 5 x Signal s
Operating temperature	-40° C to 75° C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	75 x 25 x 65 mm
Weight	130 g

SOFTWARE

Operating system	RutOS
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DI
Monitoring and Management	WEB UI, CLI, SSH, SMS, TR-069, SI
Connection monitoring	Ping Reboot, Wget reboot, Perioc
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
Modbus	TCP slave, TCP master, RTU mast
Serial	Console, Over IP, Modem, NTRIP,

TRB145

INDUSTRIAL RUGGED LTE RS485 GATEWAY

Ultra-small, lightweight and energy efficient IoT device equipped with mission-critical LTE connectivity. TRB145 comes with a widely used RS485 Industrial interface for remote device management.

CONNECTIVITY

4G/LTE (Cat 1), 3G, 2G

9-30V

Wide range of supported power supply voltages

DURABLE

18145 CEIM

Rugged aluminum housing

COMPACT

Small size, easy installation

SERIAL

Equipped with RS485 for serial communication

RMS

Compatible with Teltonika Remote Management System



GHz

or userspace), 128 MBytes RAM (50 MBytes for userspace)

t/Digital open collector output (configurable)

strength, 1 x Power

ail mounting option

DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, DHCP, Telnet

SNMP, JSON-RPC, MQTT, RMS

odic Reboot, LCP and ICMP for link inspection

lub, Cloud of Things, Cumulocity, ThingWorx

ster, RTU gateway, Modbus over MQTT

P, Modbus



Mobile	4G/LTE (Cat 4), 3G, 2G
CPU	Qualcomm, MIPS 24Kc, 650 MHz
Memory	16 MBytes Flash, 64 MBytes RAM
Powering option	16pin terminal, 9-30 VDC
SIM	2 x Internal SIM holders (2FF)
Antenna connectors	1 x SMA for mobile, 1 x SMA for GPS
Ethernet	1 x 10/100 Ethernet port
GNSS	GPS, GLONASS, BeiDou, Galileo, Q
Inputs/Outputs	On 16pin socket: 3 x Digital input/[
Serial	1 x RS232, 1 x RS485
Status LEDs	3 x Connection type, 3 x Signal stre
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rail m
Dimensions (W x H x D)	83 x 25 x 74 mm
Weight	165 g

SOFTWARE

Multiple PDN, Auto APN, Band lock
Matchie PDN, Auto Al N, Balla lock
TCP, UDP, IPv4, IPv6, ICMP, NTP, DN5
WEB UI, CLI, SSH, SMS, TR-069, SNN
Ping Reboot, Wget reboot, Periodic
RMS, FOTA, Telenor, Azure IoT Hub
NTP Server, NTP Client, Sync with:
NMEA forwarding, AVL, Geofencing
TCP slave, TCP master, RTU master
Console, Over IP, Modem, NTRIP, N
Multi user, Configuration profiles, I

TRB245

INDUSTRIAL M2M LTE GATEWAY

Industrial All-In-One M2M LTE Cat 4 Gateway equipped with multiple Inputs/Outputs, RS232, RS485 and Ethernet interfaces. All these features allow this device to be used universally in M2M applications.

CONNECTIVITY

4G/LTE (Cat 4), 3G, 2G

MOBILE

9–30V Wide range of power supply voltages

DUAL SIM

With auto failover, backup WAN and other switching scenarios

/0

8245 CEHIE

Multiple Inputs and Outputs for remote monitoring and control

SERIAL

RS232/RS485 serial communication interfaces

GNSS

Global Navigation Satellite System for location services with geofencing functionality



QZSS

t/Digital open collector output (configurable), 1 x Analog input

trength, 2 x Ethernet, 1 x Power

mounting option

k, SIM switch, Operator black/white list, Data/SMS limits

IS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, DHCP, Telnet

IMP, JSON-RPC, MQTT, RMS

ic Reboot, LCP and ICMP for link inspection

b, Cloud of Things, Cumulocity, ThingWorx

: External NTP server, GNSS, Mobile operator

ng

er, RTU gateway, Modbus over MQTT

Modbus

Diagnostics, logs, Configuration backup

4G/LTE (Cat M1), NB-loT, 2G
Qualcomm, MIPS 24Kc, 650 MHz
16 MBytes Flash, 64 MBytes RAM
16pin terminal, 9-30 VDC
2 x Internal SIM holders (2FF)
1 x SMA for mobile, 1 x SMA for GPS
1 x 10/100 Ethernet port
GPS, GLONASS, BeiDou, Galileo, QZ
On 16pin socket: 3 x Digital input/[
1 x RS232, 1 x RS485
3 x Connection type, 3 x Signal streng
-40 °C to 75 °C
Aluminium housing with DIN rail m
83 x 25 x 74 mm

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Multiple PDN, Auto APN, Band lock,
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS,
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SNN
Connection monitoring	Ping Reboot, Wget reboot, Periodic
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hub,
NTP	NTP Server, NTP Client, Sync with: E
GNSS	NMEA forwarding, AVL, Geofencing
Modbus	TCP slave, TCP master, RTU master,
Serial	Console, Over IP, Modem, NTRIP, M
Administration	Multi user, Configuration profiles, D

TRB255

INDUSTRIAL M2M GATEWAY

Industrial All-In-One M2M LTE Cat-M1/NB-IoT/EGPRS Gateway equipped with multiple Inputs/Outputs, RS232, RS485 and Ethernet interfaces. All these features allow this device to be used universally in M2M applications.

CONNECTIVITY

4G/LTE (Cat M1), NB-IoT, 2G

MOBILE

9-30V

Wide range of supported power supply voltages

DUAL SIM

255 CEHIZ

With auto failover, backup WAN and other switching scenarios

/0

Multiple Inputs and Outputs for remote monitoring and control

SERIAL

RS232/RS485 serial communication interfaces

GNSS

Global Navigation Satellite System for location services with geofencing functionality



)ZSS

/Digital open collector output (configurable), 1 x Analog input

ngth, 2 x Ethernet, 1 x Power

mounting option

, SIM switch, Operator black/white list, Data/SMS limits

5, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, DHCP, Telnet

MP, JSON-RPC, MQTT, RMS

Reboot, LCP and ICMP for link inspection

, Cloud of Things, Cumulocity, ThingWorx

External NTP server, GNSS, Mobile operator

5

r, RTU gateway, Modbus over MQTT

Nodbus

Diagnostics, logs, Configuration backup

Mobile	3G, 2G
CPU	Atheros, MIPS 24Kc, 400 MHz
Memory	16 MBytes Flash, 64 MBytes RAN
Powering option	4pin power socket, 9-30 VDC
SIM	1 x External SIM holder (2FF)
Antenna connectors	1 x SMA for mobile, 1 x RP-SMA
Ethernet	2 x 10/100 Ethernet ports: 1 x W
WiFi	IEEE 802.11b/g/n, Access point (/
Inputs/Outputs	On 4pin socket: 1 x Digital input,
Status LEDs	2 x Connection type, 5 x Signal s
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	83 x 25 x 74 mm
Weight	130 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DN
Network	Failover (Network backup), VLAN,
Firewall	Port forward, Traffic rules, Custor Unlimited firewall configuration v
Security	DDOS prevention (SYN flood pro scan prevention (SYN-FIN, SYN-RS
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SN
Connection monitoring	Ping Reboot, Wget reboot, Period
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
SMS features	SMS status, SMS configuration, Se HTTP, SMS to SMS, scheduled SM
Services	DDNS, VRRP, Wake On Lan (WOL)

RUT230

INDUSTRIAL CELLULAR ROUTER

Compact, robust and powerful device tailored for Industrial M2M/IoT applications where no high data throughput is needed. RUT230 is equipped with 2 x Ethernet and Wireless interfaces. Device provides secure and stable Internet connectivity for Industrial applications using RutOS software and security features.



Worldwide 3G network coverage

MOBILE

HIH

COMPACT Small size – easy integration

WAN FAILOVER

Automatic switching to available Backup connection

1/0

urr 117230 used E

Digital Input/Output for remote monitoring and control

WIFI

Wireless Access Point with Hotspot functionality

RMS

Compatible with Teltonika Remote Management System



1

for WiFi

VAN (configurable as LAN), 1 x LAN

(AP), Station (STA)

t, 1 x Digital open collector output

strength, 2 x Ethernet, 1 x Power

il mounting option, plastic panels

5)

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

I, QoS, Load Balancing

om rules, Pre-configured firewall rules, DMZ, NAT, NAT-T, NAT helpers, via CLI

otection, SSH attack prevention, HTTP/HTTPS attack prevention), Port ST, X-mas, NULL flags, FIN scan attacks)

P, Stunnel, DMVPN, SSTP

NMP, JSON-RPC, MQTT, RMS

dic Reboot, LCP and ICMP for link inspection

ub, Cloud of Things, Cumulocity, ThingWorx

Send/Read SMS via HTTP POST/GET, EMAIL to SMS, SMS to Email, SMS to MS, SMS autoreply, SMPP

L), WEB filter, UPNP, Traffic Logging

Mobile	4G/LTE (Cat 4), 3G, 2G
CPU	Atheros, MIPS 24Kc, 400 MHz
Memory	16 MBytes Flash, 64 MBytes RAM
Powering option	4pin power socket, 9-30 VDC
SIM	1 x External SIM holder (2FF)
Antenna connectors	2 x SMA for mobile, 1 x RP-SMA
Ethernet	2 x 10/100 Ethernet ports: 1 x W
WiFi	IEEE 802.11b/g/n, Access point (A
Inputs/Outputs	On 4pin socket: 1 x Digital input,
Status LEDs	3 x Connection type, 5 x Signal s
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	83 x 25 x 74 mm
Weight	135 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Auto APN, Band lock
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DN
Network	Failover (Network backup), VLAN,
Security	DDOS prevention (SYN flood pro scan prevention (SYN-FIN, SYN-RS
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP,
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SN
Connection monitoring	Ping Reboot, Wget reboot, Period
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
SMS features	SMS status, SMS configuration, Se HTTP, SMS to SMS, scheduled SM
Services	DDNS, VRRP, Wake On Lan (WOL),

RUT240

INDUSTRIAL CELLULAR ROUTER

Compact, robust and powerful device tailored for Industrial M2M/IoT applications. RUT240 is equipped with 2 x Ethernet and Wireless interfaces with Hotspot functionality. Device provides secure and stable Internet connectivity for Industrial applications using RutOS software and security features with RMS support.

CONNECTIVITY

MOBILE

NIFI

IIBON

4G/LTE (Cat 4), 3G, 2G

COMPACT

Small size - easy integration

WAN FAILOVER

Automatic switch to available backup connection

1/0

Treine 240

Digital Input/Output for remote monitoring and control

WIFI

Wireless Access Point with Hotspot functionality

RMS

Compatible with Teltonika Remote Management System



for WiFi

VAN (configurable as LAN), 1 x LAN

(AP), Station (STA)

t, 1 x Digital open collector output

strength, 2 x Ethernet, 1 x Power

il mounting option, plastic panels

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

QoS, Load Balancing

otection, SSH attack prevention, HTTP/HTTPS attack prevention), Port ST, X-mas, NULL flags, FIN scan attacksw

P, Stunnel, DMVPN, SSTP

NMP, JSON-RPC, MQTT, RMS

dic Reboot, LCP and ICMP for link inspection

ub, Cloud of Things, Cumulocity, ThingWorx

end/Read SMS via HTTP POST/GET, EMAIL to SMS, SMS to Email, SMS to AS, SMS autoreply, SMPP

.), WEB filter, UPNP, Traffic Logging



AUTOMOTIVE CELLULAR ROUTER

E-mark certified, ultra-slim router equipped with Ignition detection (sleep mode), Overvoltage Protection and Automotive FAKRA connectors. RUT850 comes with RutOS software and security features and custom GNSS tracking protocol that is compatible with main Global AVL tracking platforms.

CONNECTIVITY 4G/LTE (Cat 4), 3G, 2G

SLEEP MODE

With ignition detection and overvoltage protection

GNSS

Global Navigation Satellite System for location services with geofencing functionality

DURABLE

Vibration resistant FAKRA connectors

WIFI

Wireless Access Point with Hotspot functionality

RMS

Compatible with Teltonika Remote Management System

HARDWARE

Mobile	4G/LTE (Cat 4), 3G, 2G
CPU	Atheros, MIPS 74Kc, 550 MHz
Memory	16 MBytes Flash, 64 MBytes RAN
Powering option	4pin power socket, 9-30 VDC
SIM	1 x External SIM holder (2FF)
Antenna connectors	2 x FAKRA D for mobile, 1 x FAK
WiFi	IEEE 802.11b/g/n, Access point (/
GNSS	GPS, GLONASS, BeiDou, Galileo,
Inputs/Outputs	On 4pin socket: 1 x Digital input
Status LEDs	3 x Connection type, 5 x Signal s
Status LEDs Operating temperature	3 x Connection type, 5 x Signal s -40 °C to 75 °C
	<u>, , , , , , , , , , , , , , , , , , , </u>
Operating temperature	-40 °C to 75 °C
Operating temperature Housing	-40 °C to 75 °C Plastic housing

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DN
Network	Failover (Network backup), VLAN
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SM
Connection monitoring	Ping Reboot, Wget reboot, Perioc
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
Hotspot	External/Internal Radius, SMS OT
Supported Hotspot platforms	IronWiFi, HotspotSystem, Cloud4
NTP	NTP Server, NTP Client, Sync with
GNSS	NMEA forwarding, AVL, Geofenci



1

KRA C for GPS

(AP), Station (STA)

, QZSS

strength, 1 x WiFi, 1 x Power

5)

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

I, QoS, Load Balancing

SNMP, JSON-RPC, MQTT, RMS

dic Reboot, LCP and ICMP for link inspection

Hub, Cloud of Things, Cumulocity, ThingWorx

TP, MAC authentication, Walled Garden

44Wi, SAI + WiFi, MugiCloud, Purple.ai

th: External NTP server, GNSS, Mobile operator

ing



INDUSTRIAL CELLULAR ROUTER

This router is equipped with Dual-SIM, 4 x Ethernet interfaces and WiFi. RUT900 is a robust and powerful device tailored for Industrial M2M/IoT applications where no high data throughput is needed. RUT900 comes with core RutOS software and security features with RMS support.

WIFI

functionality

RMS

Management System

Wireless Access Point with Hotspot

Compatible with Teltonika Remote

CONNECTIVITY

Worldwide 3G network coverage

DUAL SIM

With auto failover, backup WAN and other switching scenarios

WAN FAILOVER

For additional connection reliability

ETHERNET

4x Ethernet ports with VLAN functionality

HARDWARE

Mobile	3G, 2G
CPU	Atheros, MIPS 74Kc, 550 MHz
Memory	16 MBytes Flash, 128 MBytes RA
Powering option	4pin power socket, 9-30 VDC
SIM	2 x External SIM holders (2FF)
Antenna connectors	2 x SMA for mobile, 2 x RP-SMA
Ethernet	4 x 10/100 Ethernet ports: 1 x W
WiFi	IEEE 802.11b/g/n, Access point (A
Inputs/Outputs	On 4pin socket: 1 x Digital input
Status LEDs	1 x Bi-Color connection type, 5 x
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	109 x 50 x 103 mm
Weight	263 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS
Mobile features	SIM switch, Data/SMS limits
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DI
Network	Failover (Network backup), VLAN
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, S
Connection monitoring	Ping Reboot, Wget reboot, Period
Cloud solutions	RMS, FOTA, Telenor, Azure IoT H
SMS features	SMS status, SMS configuration, S HTTP, SMS to SMS, scheduled SM
Services	DDNS, VRRP, Wake On Lan (WOL

28



AM

for WiFi

WAN (configurable as LAN), 3 x LAN

t (AP), Station (STA)

it, 1 x Digital open collector output

5 x Signal strength, 4 x Ethernet, 1 x Power

ail mounting option, plastic panels with flat mounting option

DS)

DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

N, QoS, Load Balancing

SNMP, JSON-RPC, MQTT, RMS

odic Reboot, LCP and ICMP for link inspection

Hub, Cloud of Things, Cumulocity, ThingWorx

Send/Read SMS via HTTP POST/GET, EMAIL to SMS, SMS to Email, SMS to SMS, SMS autoreply, SMPP

DL), WEB filter, UPNP, Traffic Logging



INDUSTRIAL CELLULAR ROUTER

This router is equipped with Dual-SIM, 4 x Ethernet interfaces and WiFi. Device is designed as Main/Backup Internet source and can guarantee reliable Internet connection with high data throughput and data redundancy. RUT950 comes with RutOS software and security features with RMS support.

CONNECTIVITY

4G/LTE (Cat 4), 3G, 2G

DUAL SIM

With auto failover, backup WAN and other switching scenarios

WAN FAILOVER

Automatic switch to available backup connection

ETHERNET

4 x Ethernet interfaces with VLAN functionality

WIFI

Wireless Access Point with Hotspot functionality

RMS

Compatible with Teltonika Remote Management System

HARDWARE

Mobile	4G/LTE (Cat 4), 3G, 2G
CPU	Atheros, MIPS 74Kc, 550 MHz
Memory	16 MBytes Flash, 128 MBytes RA
Powering option	4pin power socket, 9-30 VDC
SIM	2 x External SIM holders (2FF)
Antenna connectors	2 x SMA for mobile, 2 x RP-SMA
Ethernet	4 x 10/100 Ethernet ports: 1 x W
WiFi	IEEE 802.11b/g/n, Access point (/
Inputs/Outputs	On 4pin socket: 1 x Digital input,
Status LEDs	1 x Bi-Color connection type, 5 x
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	109 x 50 x 103 mm
Weight	263 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS
Mobile features	Auto APN, Band lock, SIM switch
Network	Failover (Network backup), VLAN
Routing	Static routes, Dynamic routes (B
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TI
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, S
Connection monitoring	Ping Reboot, Wget reboot, Perio
Cloud solutions	RMS, FOTA, Telenor, Azure IoT H
Hotspot	External/Internal Radius, SMS O
Supported Hotspot platforms	IronWiFi, HotspotSystem, Cloud
	nonwin, notspotsystem, cloud-
SMS features	SMS status, SMS configuration, S HTTP, SMS to SMS, scheduled SM



AM

for WiFi

VAN (configurable as LAN), 3 x LAN

(AP), Station (STA)

t, 1 x Digital open collector output

x Signal strength, 4 x Ethernet, 1 x Power

il mounting option, plastic panels with flat mounting option

)S)

h, Operator black/white list, Data/SMS limits

N, QoS, Load Balancing

3GP, OSPFv2, RIPv1/v2, NHRP), Routing rules

TP, Stunnel, DMVPN, SSTP

SNMP, JSON-RPC, MQTT, RMS

odic Reboot, LCP and ICMP for link inspection

Hub, Cloud of Things, Cumulocity, ThingWorx

DTP, MAC authentication, Walled Garden

4Wi, SAI + WiFi, MugiCloud, Purple.ai

Send/Read SMS via HTTP POST/GET, EMAIL to SMS, SMS to Email, SMS to SMS, SMS autoreply, SMPP

DL), WEB filter, UPNP, Traffic Logging



Equipped with Dual-SIM, 4 x Ethernet, WiFi and RS232, RS485, USB interfaces and Inputs/Outputs. RUT955 comes with RutOS advanced software features such as Modbus, SNMP, TR-069, NTRIP, MQTT protocol support and custom GNSS tracking protocol that is compatible with Global AVL tracking platforms.

GNSS

RMS

Management System

Global Navigation Satellite System for location

services and time synchronization

Compatible with Teltonika Remote

CONNECTIVITY

4G/LTE (Cat 4), 3G, 2G

1/0

Multiple digital and analog inputs and outputs for equipment control and event notification

DUAL SIM

For additional connection reliability

SERIAL

RS232/RS485 serial communication interfaces

HARDWARE

Mobile	4G/LTE (Cat 4), 3G, 2G
CPU	Atheros, MIPS 74Kc, 550 MHz
Memory	16 MBytes Flash, 128 MBytes RAM
Powering option	4pin power socket, 9-30 VDC
SIM	2 x External SIM holders (2FF)
Antenna connectors	2 x SMA for mobile, 2 x RP-SMA for
Ethernet	4 x 10/100 Ethernet ports: 1 x WA
WiFi	IEEE 802.11b/g/n, Access point (Al
GNSS	GPS, GLONASS, BeiDou, Galileo, C
Inputs/Outputs	On 4pin socket: 1 x Digital input, On 10pin socket: 1 x Isolated d collector output (requires externa
Serial	1 x RS232, 1 x RS485
Other	1 x USB host, 1 x MicroSD
Status LEDs	1 x Bi-Color connection type, 5 x S
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rail
Dimensions (W x H x D)	109 x 50 x 103 mm
Weight	295 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Band lock, SIM switch, Operator b
Network	Failover (Network backup), VLAN,
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SN
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
NTP	NTP Server, NTP Client, Sync with:
GNSS	NMEA forwarding, AVL, Geofencin
Modbus	TCP slave, TCP master, RTU maste
Serial	Console, Over IP, Modem, NTRIP,



Λ

for WiFi, 1 x SMA for GPS

'AN (configurable as LAN), 3 x LAN

AP), Station (STA)

QZSS

.1 x Digital open collector output digital input, 1 x Digital dry input, 1 x Analog input, 1 x Isolated open nal voltage), 1 x Relay output (non-latching)

Signal strength, 4 x Ethernet, 1 x Power

l mounting option, plastic panels with flat mounting option

black/white list, Data/SMS limits

QoS, Load Balancing

NMP, JSON-RPC, MQTT, RMS

ub, Cloud of Things, Cumulocity, ThingWorx

h: External NTP server, GNSS, Mobile operator

ing

ter, RTU gateway, Modbus over MQTT

Modbus

RUTX08

9-50 V

RMS

Management System

This router supports a wide range of power

supply voltage for versatile integration

Compatible with Teltonika Remote

INDUSTRIAL ETHERNET ROUTER

This robust industrial router is equipped with 4 x Gigabit Ethernet ports, Quad-core CPU and 256 MB of RAM. These powerful specifications combined with core RutOS software features, such as multiple VPN services, advanced Firewall and RMS support, makes this device a superb Industrial performer.

GIGABIT ETH

4 x Gigabit Ethernet ports with up to 128 port/tag-based VLANs supported

PROTOCOLS

Multiple protocols supported including MQTT, Modbus TCP, BGP, GRE

I/O & USB

CT.TELTONIK

Digital Input / Output for remote monitoring and control and USB 2.0 interface

SECURITY

Firewall and numerous VPN services including OpenVPN, IPsec, PPTP, L2TP & DMVPN

HARDWARE

CPU	Qualcomm, 4 x ARM Cortex A7,
Memory	256 MBytes Flash, 256 MBytes R
Powering option	4pin power socket, 9-50 VDC
Ethernet	4 x 10/100/1000 Ethernet ports:
Inputs/Outputs	On 4pin socket: 1 x Digital input,
Other	1 x USB Host
Status LEDs	8 x Ethernet, 1 x Power
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	115 x 32 x 95 mm
Weight	345 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DN
Routing	Static routes, Dynamic routes (BG
Firewall	Port forward, Traffic rules, Custor Unlimited firewall configuration v
Security	DDOS prevention (SYN flood pro scan prevention (SYN-FIN, SYN-RS
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SN
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
Services	DDNS, VRRP, Wake On Lan (WOL)
Administration	Multi user, Configuration profiles,

34



, 717 MHz

RAM

s: 1 x WAN (configurable as LAN), 3 x LAN

t, 1 x Digital open collector output

il mounting option and grounding capability

5)

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

GP, OSPFv2, RIPv1/v2, EIGRP, NHRP), Routing rules

om rules, Pre-configured firewall rules, DMZ, NAT, NAT-T, NAT helpers, via CLI

otection, SSH attack prevention, HTTP/HTTPS attack prevention), Port ST, X-mas, NULL flags, FIN scan attacks)

P, Stunnel, DMVPN, SSTP, WireGuard, ZeroTier

NMP, JSON-RPC, MQTT, RMS

ub, Cloud of Things, Cumulocity, ThingWorx

.), WEB filter, UPNP, Network shares (Samba), Traffic Logging

s, Diagnostics, logs, Configuration backup



INDUSTRIAL CELLULAR ROUTER

This powerful LTE Cat 6 cellular industrial router is designed for professional and IoT applications where steady and fast connection and high data throughput is required.

4G LTE CAT 6

Cellular speeds up to 300Mbps with Carrier Aggregation

GNSS

Global Navigation Satellite System for location services and time synchronization

DUAL SIM

With auto failover, backup WAN and other switching scenarios

SECURITY

Firewall and numerous VPN services including OpenVPN, IPsec, PPTP, L2TP & DMVPN

GIGABIT ETH

4 x Gigabit Ethernet ports with up to 128 port/tag-based VLANs supported

RMS

Compatible with Teltonika Remote Management System

HARDWARE

Mobile	4G/LTE (Cat 6), 3G
CPU	Qualcomm, 4 x ARM Cortex A7,
Memory	256 MBytes Flash, 256 MBytes R
Powering option	4pin power socket, 9-50 VDC
SIM	2 x External SIM holders (2FF)
Antenna connectors	2 x SMA for mobile, 1 x SMA for
Ethernet	4 x 10/100/1000 Ethernet ports:
GNSS	GPS, GLONASS, BeiDou, Galileo,
Inputs/Outputs	On 4pin socket: 1 x Digital input
Other	1 x USB host
Status LEDs	3 x WAN type, 2 x Connection ty
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rai
Dimensions (W x H x D)	115 x 44 x 95 mm
Weight	455 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Multiple PDN, Auto APN, Band lo
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DN
Network	Failover (Network backup), VLAN,
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SM
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
NTP	NTP Server, NTP Client, Sync with
GNSS	NMEA forwarding, AVL, Geofenci
Services	DDNS, VRRP, Wake On Lan (WOL)
Administration	Multi user, Configuration profiles



, 717 MHz

RAM

GPS

s: 1 x WAN (configurable as LAN), 3 x LAN

, QZSS

t, 1 x Digital open collector output

ype, 5 x Signal strength, 8 x Ethernet, 1 x Power

il mounting option and grounding capability

5)

ock, SIM switch, Operator black/white list, Data/SMS limits

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

I, QoS, Load Balancing

P, Stunnel, DMVPN, SSTP, WireGuard, ZeroTier

NMP, JSON-RPC, MQTT, RMS

lub, Cloud of Things, Cumulocity, ThingWorx

h: External NTP server, GNSS, Mobile operator

ing

.), WEB filter, UPNP, Network shares (Samba), Traffic Logging

es, Diagnostics, logs, Configuration backup



PROFESSIONAL ETHERNET ROUTER

This professional router combines the best of wired and wireless routing functionalities with Gigabit Ethernet, Bluetooth LE, and AC Wi-Fi. Advanced remote management capabilities along with numerous security & networking protocols supported make RUTX10 an ideal choice for professional applications.

GIGABIT ETH

4 x Gigabit Ethernet ports with up to 128 port/tag-based VLANs supported

PROTOCOLS

Multiple protocols supported including MQTT, Modbus TCP, BGP, GRE

I/O & USB

Digital Input / Output for remote monitoring and control and USB 2.0 interface

SECURITY

Firewall and numerous VPN services including OpenVPN, IPsec, PPTP, L2TP & DMVPN WIFI & BT

Wave-2 802.11ac Dual Band WIFI and Bluetooth LE

RMS

Compatible with Teltonika Remote Management System

HARDWARE

Qualcomm, 4 x ARM Cortex A7,
256 MBytes Flash, 256 MBytes R
4pin power socket, 9-50 VDC
2 x RP-SMA for WiFi, 1 x RP-SMA
4 x 10/100/1000 Ethernet ports:
IEEE 802.11b/g/n 2.4GHz, IEEE 8
4.0 (Low energy)
On 4pin socket: 1 x Digital input
1 x USB host
2 x WiFi, 8 x Etherner, 1 x Power
-40 °C to 75 °C
Aluminium housing with DIN rai
0
115 x 32 x 95 mm

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DI
Routing	Static routes, Dynamic routes (B0
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TF
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SI
Connection monitoring	Ping Reboot, Wget reboot, Period
Cloud solutions	Ping Reboot, Wget reboot, Period RMS, FOTA, Telenor, Azure IoT H
Cloud solutions	RMS, FOTA, Telenor, Azure IoT H



, 717 MHz

RAM

A for Bluetooth

s: 1 x WAN (configurable as LAN), 3 x LAN

802.11ac/n/a 5GHz, Access point (AP), Station (STA)

t, 1 x Digital open collector output

il mounting option and grounding capability

)S)

DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

BGP, OSPFv2, RIPv1/v2, EIGRP, NHRP), Routing rules

TP, Stunnel, DMVPN, SSTP, WireGuard, ZeroTier

SNMP, JSON-RPC, MQTT, RMS

odic Reboot, LCP and ICMP for link inspection

Hub, Cloud of Things, Cumulocity, ThingWorx

authentication, Walled Garden

d4Wi, SAI + WiFi, MugiCloud, Purple.ai

)L), WEB filter, UPNP, Network shares (Samba), Traffic Logging



INDUSTRIAL CELLULAR ROUTER

This powerful LTE Cat 6 cellular industrial router is designed for professional and IoT applications where steady and fast connection and high data throughput is required. It is equipped with 4 x Gigabit Ethernet, Bluetooth LE, and AC Wi-Fi with remote management capabilities.

4G LTE CAT 6 Cellular speeds up to 300Mbps with Carrier Aggregation

GNSS

Global Navigation Satellite System for location services and time synchronization

DUAL SIM

With auto failover, backup WAN and other switching scenarios

PROTOCOLS

Multiple protocols supported including MQTT, Modbus TCP, BGP, GRE

WIFI & BT

Wave-2 802.11ac Dual Band WIFI and Bluetooth LE

RMS

Compatible with Teltonika Remote Management System

HARDWARE

Mobile	4G/LTE (Cat 6), 3G
CPU	Qualcomm, 4 x ARM Cortex A7, 7
Memory	256 MBytes Flash, 256 MBytes R
Powering option	4pin power socket, 9-50 VDC
SIM	2 x External SIM holders (2FF)
Antenna connectors	2 x SMA for mobile, 2 x RP-SMA f
Ethernet	4 x 10/100/1000 Ethernet ports:
WiFi	IEEE 802.11b/g/n 2.4GHz, IEEE 80
GNSS	GPS, GLONASS, BeiDou, Galileo,
Bluetooth	4.0 (Low energy)
Inputs/Outputs	On 4pin socket: 1 x Digital input,
Other	1 x USB host
Status LEDs	4 x WAN type, 2 x Connection typ
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rail
Dimensions	115 x 44 x 95 mm
Weight	456 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS
Mobile features	Multiple PDN, Auto APN, Band lock
Network	Failover (Network backup), VLAN
Routing	Static routes, Dynamic routes (BC
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TF
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hu
Hotspot	External/Internal Radius, SMS OT
NTP	NTP Server, NTP Client, Sync with
GNSS	NMEA forwarding, AVL, Geofenci



717 MHz

RAM

for WiFi, 1 x RP-SMA for Bluetooth, 1 x SMA for GPS

: 1 x WAN (configurable as LAN), 3 x LAN

802.11ac/n/a 5GHz, Access point (AP), Station (STA)

QZSS

t, 1 x Digital open collector output

ype, 5 x Signal strength, 2 x WiFi, 8 x Ethernet, 1 x Power

il mounting option and grounding capability

5)

ck, SIM switch, Operator black/white list, Data/SMS limits

N, QoS, Load Balancing

3GP, OSPFv2, RIPv1/v2, EIGRP, NHRP), Routing rules

IP, Stunnel, DMVPN, SSTP, WireGuard, ZeroTier

Hub, Cloud of Things, Cumulocity, ThingWorx

DTP, MAC authentication, Walled Garden

th: External NTP server, GNSS, Mobile operator

ing



RUTX12

WIFI & BT

Bluetooth LE

RMS

Management System

Wave-2 802.11ac Dual Band WIFI and

Compatible with Teltonika Remote

DUAL LTE CAT 6 INDUSTRIAL CELLULAR ROUTER

Powerful Dual LTE Cat 6 router is designed for mission critical applications. Equipped with two LTE modems for dual simultaneous connections allowing instant seamless LTE service switching and load balancing features make this device irreplaceable in applications where loosing connection is not an option.

DUAL LTE

Cellular speeds up to 600Mbps with dual multaneous LTE CAT 6 connections

GNSS

Global Navigation Satellite System for location services and time synchronization

DUAL SIM

Instant failover switching

LOAD BALANCING

Allows to use multiple WAN sources to increase throughput

HARDWARE

Mobile	2 X 4G/LTE (Cat 6), 3G
CPU	Qualcomm, 4 x ARM Cortex A7, 71
Memory	256 MBytes Flash, 256 MBytes RAM
Powering option	4pin power socket, 9-50 VDC
SIM	2 x External SIM holders (2FF)
Antenna connectors	4 x SMA for mobile, 2 x RP-SMA for
Ethernet	5 x 10/100/1000 Ethernet ports: 1 x
WiFi	IEEE 802.11b/g/n 2.4GHz, IEEE 802.
GNSS	GPS, GLONASS, BeiDou, Galileo, QZ
Connectors	1 x 4 pin DC, 5 x Ethernet, 4 x SMA fo
Bluetooth	4.0 (Low energy)
Inputs/Outputs	On 4pin socket: 1 x Digital input, 1
Other	1 x USB host
Status LEDs	4 x WAN type, 6 x Connection type,
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with DIN rail m
Dimensions (W x H x D)	132 x 44 x 95 mm
Weight	540 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS
Mobile features	Multiple PDN, Auto APN, Band lock
Network	Failover (Network backup), VLAN
Routing	Static routes, Dynamic routes (B0
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SI
Cloud solutions	RMS, FOTA, Telenor, Azure IoT H
Hotspot	External/Internal Radius, SMS OT
Supported Hotspot platforms	IronWiFi, HotspotSystem, Cloud4

42



17 MHz

or WiFi, 1 x RP-SMA for Bluetooth, 1 x SMA for GPS

x WAN (configurable as LAN), 4 x LAN

2.11ac/n/a 5GHz, Access point (AP), Station (STA)

)ZSS

or LTE, 2 x WiFi RP-SMA, 1 x SMA for GNSS, 1 x RP-SMA for Bluetooth

x Digital open collector output

e, 6 x Signal strength, 2 x WiFi, 10 x Ethernet, 1 x Power

mounting option and grounding capability

)S)

ck, SIM switch, Operator black/white list, Data/SMS limits

N, QoS, Load Balancing

BGP, OSPFv2, RIPv1/v2, EIGRP, NHRP), Routing rules

SNMP, JSON-RPC, MQTT, RMS

Hub, Cloud of Things, Cumulocity, ThingWorx

DTP, MAC authentication, Walled Garden

44Wi, SAI + WiFi, MugiCloud, Purple.ai



ENTERPRISE SFP/LTE RACK MOUNT READY ROUTER

Rack-mounted LTE Cat6 router with redundant power supplies and WAN interfaces (WAN failover), Dual SIM, SFP, USB and dedicated console ports. This feature-rich device with well-known and powerful RutOS is perfect where fast and ultra-reliable connection is needed.

4G LTE CAT 6

Cellular speeds up to 300Mbps with Carrier Aggregation

SFP

SFP port for long-range Fiber-optic communication

DUAL SIM

With auto failover, backup WAN and other switching scenarios

GIGABIT ETH

5 x Gigabit Ethernet ports

WIFI

Wave-2 802.11ac Dual Band WIFI

RMS

Compatible with Teltonika Remote Management System

HARDWARE

Mobile	4G/LTE (Cat 6), 3G
CPU	Qualcomm, 4 x ARM Cortex A7, 7
Memory	256 MBytes Flash, 256 MBytes RA
Powering option	4pin power socket, 9-50 VDC (ma 4pin power socket, 9-50 VDC (red
SIM	2 x External SIM holders (2FF)
Antenna connectors	2 x SMA for mobile, 2 x RP-SMA fo
Ethernet	5 x 10/100/1000 Ethernet ports: 1
WiFi	IEEE 802.11b/g/n 2.4GHz, IEEE 802.1
Other	1 x USB host, 1 x SFP, 1 x RS232 c
Status LEDs	2 x WAN type, 2 x Connection typ
Operating temperature	-40 °C to 75 °C
Housing	Full aluminium rack unit housing
Dimensions (W x H x D)	272 x 44 x 123 mm
Weight	1050 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Multiple PDN, Auto APN, Band lock
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DN
Network	Failover (Network backup), VLAN, Q
Routing	Static routes, Dynamic routes (BGF
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP,
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SNI
Cloud solutions	RMS, FOTA, Telenor, Azure IoT Hub
Services	DDNS, VRRP, Wake On Lan (WOL),

COMING SOON

717 MHz

AM

ain)

dundant)

for WiFi

1 x WAN (configurable as LAN), 4 x LAN

.11ac/n/a 5GHz, Access point (AP), Station (STA)

console

pe, 3 x Signal strength, 2 x SIM, 2 x Console, 10 x Ethernet, 2 x Power

g with grounding capability

ck, SIM switch, Operator black/white list, Data/SMS limits

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

QoS, Load Balancing

SP, OSPFv2, RIPv1/v2, EIGRP, NHRP), Routing rules

Stunnel, DMVPN, SSTP, WireGuard, ZeroTier

IMP, JSON-RPC, MQTT, RMS

b, Cloud of Things, Cumulocity, ThingWorx

, WEB filter, UPNP, Network shares (Samba), Traffic Logging

Powering option	4pin power socket, 7-58 VDC
Power consumption	Idle: < 2 W, Max: < 9 W (no PoE de
PoE standart	802.3af/at (max 30 W per port, to
Ethernet	5 x 10/100/1000 Ethernet ports: 4
Status LEDs	10 x Ethernet, 1 x Power
Ingress protection rating	IP30
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing with wall or DIN
Dimensions	115 x 32 x 95 mm
Weight	

PERFORMANCE SPECIFICATIONS

Bandwidth	10 Gbps
Packet buffer	128 KB
Jumbo frame support	9216 bytes
MAC address table size	2K entries
Auto MDI/MDI-X Cable Detection	Yes

TSW100

INDUSTRIAL UNMANAGED POE+ SWITCH

TSW100 – 5-port, unmanaged full Gigabit Ethernet switch supporting Power-over-Ethernet (802.3af and 802.3at standards). This device is classified as power source equipment (PSE), and when used in this way, TSW100 switch enables centralization of the power supply, providing up to 30 watts of power per port and reducing the effort for installing power. It has 10/100/1000 Mbps Ethernet ports to provide an economical high-bandwidth solution for your industrial Ethernet network.

EFAL

TTELTONIN DE

POE 4 x PoE ports with 802.3af and 802.3at support

POWER BUDGET

Total power budget at PSE up to 120 W

DURABLE

Rugged aluminium housing

ETHERNET

5 x Gigabit Ethernet with speeds up to 1000 Mbps

MOUNTING

DIN rail and surface mounting options

PLUG-N-PLAY

No additional configuration needed

*Provided power supply only allows 60 W PoE power budget at PSE, to reach maximum 120 W at PSE >130 W power PSU must be used



levice connected)

otal power budget 120W*)

4 x PoE, 1 x Uplink

N rail mounting option and grounding capability



This platform allows users to analyze and monitor router statistical data, access WebUI interface of individual devices, change configuration of multiple connected routers using customizable selected profiles. In addition, it is possible to do remote automatic firmware updates and access equipment behind the router.

REMOTE ACCESS

Have remote access to other equipment, including devices that aren't manufactured by Teltonika

UPDATES

With RMS you can update hundreds of devices to the latest firmware version in just a few clicks

ALERT

Use real-time email alerts in order to stay informed on what's happening to your devices

REPORTS

Set up a custom report system that contains information on user requested device parameters

SECURITY

RMS complies with CIS v7 infrastructure security certificate and has been awarded OWASP level 2 security certificate

HOTSPOT

Maintain complete awareness of your WiFi network by being able to add or delete users and monitor data usage

MAIN FEATURES

Unfied protocol	Enjoy a well-rounded solution for n
Remote access to non Teltonika devices	If your Teltonika device is on RMS connected to its private network
Realtime alert system	Use real-time email alerts in order
Activity reports	Set up a custom report system that
Hotspot tracking service	Manage and track the activity of yo
Remote firmware/backup updates	Make sure you don't miss out on va
GPS history	Always stay informed of where you
Statistics displays charts	Use automatically generated charts to
Remote monitoring	RMS is a client-server based system the use of a public IP address

SOFTWARE

Connection with server	MQTT protocol (with SSL certificates
Proxy	Webui, CLI, HTTP(HTTPS) Non-teltor
Cloud	Amazon Web Service
Eligible devices	RUT230, RUT240, RUT850, RUT900, I TRB140, TRB141, TRB142, TRB145, T
Security	OWASP II, Cis v7
Creatable alerts	Signal strength, SIM switch, device status
Update types	Firmware update, configuration upl
Report types	Manual one time reports (day, week, r
Available downloads	Device configuration, event logs, tro uploaded firmware files, uploaded o
Static device parameters	IMEI, model, manufacturer, hardware
Dynamic device parameters	SIM state, PIN state, net state, signa connection type, temperature, sent cards, if available), firmware versior ID, MCC, MNC, LAC, ICCID, RSCP, EC
Hotspot parameters	Hotspot SSID, hotspot status (enabl users, active users, active user MAC user use time, user downloaded da
GPS parameters	Status, latitude, longitude, fix time,
Input/output parameters	Digital input, digital isolated input, a



managing multiple Teltonika devices from a single platform

S, it can be used to generate remote access links to equipment that is

r to stay informed on what's happening to your devices

at contains information on user requested device parameters

our WiFi Hotspot

various improvements and new features that come with new firmwares

our devices are and have been with the help of location history

to monitor the history of your device activities

m, which provides the possibility to access devices remotely even without

es); VPN

nika device

RUT950, RUT955, RUTX08, RUTX09, RUTX10, RUTX11, RUTX12, RUTXR1, TRB245, TRB255

s change (online/offline), mobile data (connected/disconnected), GPS geofencing

bload

month), periodic reports (daily, weekly, monthly)

roubleshoot file, CSV file of currently visible devices, generated reports, configuration files

e version, IMSI, product code, batch number, modem revision

al (-dBm), operator, operator number, connection state, mobile It bytes (of both SIM cards, if available), received bytes (of both SIM on, current SIM slot, router uptime, mobile IP, WAN state, WAN IP, cell CIO, RSRP, SINR, RSRQ

bled/disabled), hotspot IP, total downloaded data, total uploaded data, C, active user IP, active user start time, active user end time, active ata, user uploaded data, hotspot download limit, hotspot upload limit

GPS date/time, altitude, speed, satellite count, course, accuracy

analog input, digital OC output, digital relay output

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Contract of					
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	TELTONIKA				
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	SYSTEM D				
STATUS	ROUTER UPTINE	MOBILE COMPETING	-		
OVERVIEW INSTEM	LOCAL DEVICE TIME	na. Tati			
NETWORK REDUCTES	MEMORY USACE RALE TO BUS FLADS S.DR.	Sta CASS SLID IN US	-		
SERVICES.	TRANARI VERSION	MARY METHOD / RML			
REALTIME GRAPHS.					
	WAN D	UN D		COLUMN 2 COL	
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	HAN DAEDVER TATUS				

REMOTE MANAGEMENT SYSTEM

MANAGEMENT SERVICE

And Andrew Street, of Paparan & M.

RUTOS

Operating System for Networking products

RutOS is our unified router Operating System and the core component of all Teltonika networking products. 10+ years of development made RutOS grow to the highest Industry standards. Security, stability and user experience are the key values that our platform is built around. Intuitive Web interface and constantly growing Wiki/Crowd-Support platforms help our partners to cut costs on engineer training while implementing new devices or migrating from other systems.

Teltonika networking products stand out as easily manageable devices on the market. Multiple remote monitoring and control functions are inseparable part of RutOS. This Open-source OpenWrt based Operating System along with full software documentation enable easy development of custom software solutions or new functionality as well as fast integration with 3rd party platforms.

MAIN FEATURES

Operator black/white list, band loc	
TCP, UDP, IPv4, IPv6, ICMP, NTP, DI	
Failover (network backup), VLAN, C	
Static routes, Dynamic routes (BGP, C	
Port forward, traffic rules, custom unlimited firewall configuration via	
DDOS prevention (SYN flood prote prevention (SYN-FIN, SYN-RST, X-m	
OpenVPN, IPsec, GRE, PPTP, L2TP,	
WEB UI, CLI, SSH, SMS, TR-069, SNI	
Ping Reboot, Wget reboot, Periodio	
RMS, FOTA, Telenor, Azure IoT Hub	
External/internal Radius, SMS OTP,	
IronWiFi, Hotspotsystem, Cloud4W	
NTP Server, NTP Client, sync with:	
NMEA forwarding, AVL, geofencing	
TCP slave, TCP master, RTU master	
Console, over IP, modem, NTRIP, N	
SMS status, SMS configuration, ser HTTP, SMS to SMS, scheduled SMS	
DDNS, VRRP, Wake On Lan (WOL),	
Multi user, configuration profiles, c	
Busybox shell, Lua, C, C++	
SDK package with build environme	



ck, multiple PDN, auto APN, data/SMS limits, SIM switch

NS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet

QoS, Load Balancing

OSPFv2, RIPv1/v2, EIGRP, NHRP), Routing rules

m rules, pre-configured firewall rules, DMZ, NAT, NAT-T, NAT helpers, ia CLI

ection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan nas, NULL flags, FIN scan attacks)

, Stunnel, DMVPN, SSTP, WireGuard, ZeroTier

IMP, JSON-RPC, MQTT, RMS

ic Reboot, LCP and ICMP for link inspection

b, Cloud of Things, Cumulocity, ThingWorx

P, MAC authentication, Walled Garden

Ni, SAI + WiFi, MugiCloud, Purple.ai

external NTP server, GNSS, mobile operator

,

er, RTU gateway, Modbus over MQTT

Modbus

end/read SMS via HTTP POST/GET, EMAIL to SMS, SMS to Email, SMS to S, SMS autoreply, SMPP

, WEB filter, UPNP, Network shares (Samba), Traffic Logging

diagnostics, logs, configuration backup

ent provided

NETWORKING PRODUCTS COMPARISON

Products key features	TMR240	TMR250	TRB140	TRB141	TRB142	TRB145	TRB245	TRB255	RUT230	RUT240	RUT850	RUT900	RUT950	RUT955	RUTX08	RUTX09	RUTX10	RUTX11	RUTX12	RUTXR1
4G/LTE category	Cat1	M1/NB	Cat4	Cat1	Cat1	Cat1	Cat4	M1/NB		Cat4	Cat4		Cat4	Cat4		Cat6		Cat6	2xCat6	Cat6
3G	•		•	•	•	•	•		•	•	•	•	•	•		•		•	•	•
2G	•	•	•	•	•	•	•	•	•	•	•	•	•	•					1. 1. j.	
CPU (MHz)			1200	1200	1200	1200	650	650	400	400	550	550	550	550	4x717	4x717	4x717	4x717	4x717	4x717
RAM (MB)			128	128	128	128	64	64	64	64	64	128	128	128	256	256	256	256	256	256
Flash memory (MB)			512	512	512	512	16	16	16	16	16	16	16	16	256	256	256	256	256	256
Passive PoE		1.1.5		- 0					•	•		•	•	•	•	. • ·	•	•	•	
Power voltage (VDC)	5	5	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-50	9-50	9-50	9-50	9-50	2x(9-50)
SIM card slots	1	1	1	1	1	1	2	2	1	1	1	2	2	2		2	8 *	2	2	2
Ethernet ports			1				1	1	2	2		4	4	4	4	4	4	4	5	5
Ethernet speed (Mbps)		i Je	1000				100	100	100	100		100	100	100	1000	1000	1000	1000	1000	1000
WiFi standard									n	n	n	n	n	n	. 4		ac	ac	ac	ac
GNSS							•	•			•			•				•	•	
Inputs/Outputs			2	8	2	2	4	4	2	2	2	2	2	6	2	2	2	2	2	
RS232					•		•	•				0		•						
RS485						•	•	•						•						
Bluetooth																1911 - 1914 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 -	•	•	•	
USB	Slave	Slave	Slave	Slave	Slave	Slave								Host	Host	Host	Host	Host	Host	Host
DIN Rail mounting	•	•	•	•	•	× •	•	•	•	•		•	•	•	÷	•	•	•	•	
Rack mounting																				
Flat surface mounting	•		•			•			•	•		•	•			•		•	•	
Grounding terminal																				
Sleep mode																				
RMS support																				
RutOS				•	•	•			•		•						•	•	•	

ACCESSORIES / POWERING OPTIONS





EU power supply, 4.5 W Order code: 035R-00163

UK power supply, 4.5 W Order code: 035R-00161





EU power supply, 9 W Order code: 035R-00143

UK power supply, 9 W Order code: 035R-00148





EU power supply, 18 W Order code: 035R-00150

UK power supply, 18 W Order code: 035R-00151





Automotive power supply, 4 pin Order code: 058R-00249 4 pin power cable with 4-way screw terminal Order code: 058R-00229



AU power supply, 4.5 W Order code: 035R-00160



US power supply, 4.5 W Order code: 035R-00162



AU power supply, 9 W Order code: 035R-00152



US power supply, 9 W Order code: 035R-00149



AU power supply, 18 W Order code: 035R-00153



US power supply, 18 W Order code: 035R-00154



DIN Rail power supply Order code: 035R-00156

ACCESSORIES / ANTENNA OPTIONS



COMBO MIMO mobile/GNSS/ WiFi ROOF SMA antenna Order code: 003R-00253



COMBO SISO mobile/GNSS/ WiFi ROOF SMA antenna Order code: 003R-00254



COMBO MIMO mobile ROOF SMA antenna Order code: 003R-00252



ACCESSORIES / MOUNTING OPTIONS





Compact DIN Rail Kit* Order code: 088-00270

DIN Rail Kit* Order code: 088-00267





WiFi SMA antenna Order code: 003R-00224



Bluetooth magnetic SMA antenna Order code: 003R-00256



Mobile adhesive fakra antenna Order code: 003R-00177

Mobile adhesive sma antenna Order code: 003R-00263





ACCESSORIES / BLUETOOTH SENSOR







Blue PUCK T EN 12830*** Order code: PRIEDAS4B5



Order code: PRIEDAS12R



Blue PUCK MOV*** Order code: PRIEDASMMF

Blue PUCK T*** Order code: PRIEDASIDS

* Compatible with RUT2**, RUT9** and RUTX** series devices.

** Compatible with TRB14* series devices.

*** Compatible with RUTX10 and RUTX11 devices.

Mobile SMA antenna

Order code: 003R-00225



GNSS Adhesive SMA antenna Order code: 003R-00250



WiFi dual-band SMA antenna Order code: 003R-00249



antenna Order code: 003R-00235



GNSS Adhesive fakra



WiFi dual-band magnetic antenna Order code: 003R-00247



Surface mounting kit* Order code: 088-00260



TRB DIN Rail Kit** Order code: 088-00256



Blue PUCK RHT*** Order code: PRIEDAS7HR



Blue PUCK MAG*** Order code: PRIEDAS1LH



Blue PUCK ID*** Order code: PRIEDASC3D



Blue SLIM ID*** Order code: PRIEDASN60



ACCESSORIES COMPATIBILITY

	TRB140	TRB141	TRB142	TRB145	TRB245	TRB255	RUT23(RUT240	RUT850	RUT900	RUT95(RUT955	RUTX08	RUTX09	RUTX1(RUTX1	RUTX1;	RUTXR
EU POWER SUPPLY, 4.5W Order code: 035R-00163																		
UK POWER SUPPLY, 4.5W Order code: 035R-00161	•	•	·	·														
AU POWER SUPPLY, 4.5W Order code: 035R-00160	•	•	·	·														
US POWER SUPPLY, 4.5W Order code: 035R-00162	•	·	•	·														
EU POWER SUPPLY, 9W Order code: 035R-00143					a Sta		•	•	•	·	•	•						
UK POWER SUPPLY, 9W Order code: 035R-00148							·	•	•	·	•	·						
AU POWER SUPPLY, 9W Order code: 035R-00152							·	·	•	•	·	•						
US power supply, 9 W Order code: 035R-00149							•	•	•	•	·	•				1		
EU POWER SUPPLY, 18W Order code: 035R-00150 V																		
UK POWER SUPPLY, 18W Order code: 035R-00151																		
AU POWER SUPPLY, 18W Order code: 035R-00153								3					•	•	•	•	•	·
US POWER SUPPLY, 18W Order code: 035R-00154													•	·	•	•	•	·
POWER CABLE WITH 4-WAY SCREW TERMINAL Order code: 058R-00229	•		•	•			•	•	•	•	•	•	•	•	•	•	•	·
AUTOMOTIVE POWER SUPPLY Order code: 058R-00249	•	•	•	•			•	•	•	•	•	•	•	·	•	•	•	•
DIN RAIL POWER SUPPLY Order code: 035R-00156	•	•	•	•	•	•	•	•	•	•	·	•	•	•	•	·		
COMBO MIMO MOBILE/GNSS/WIFI ROOF SMA ANTENNA Order code: 003R-00253																		
COMBO MIMO MOBILE ROOF SMA ANTENNA Order code: 003R-00252										•				•				

	TRB140	TRB141	TRB142	TRB145	TRB245	TRB255	RUT230	RUT240	RUT850	RUT900	RUT950	RUT955	RUTX08	RUTX09	RUTX10	RUTX11	RUTX12	RUTXR1
COMBO SISO MOBILE/GNSS/WIFI ROOF SMA ANTENNA Order code: 003R-00254																		
GNSS ADHESIVE SMA ANTENNA Order code: 003R-00250																		
GNSS ADHESIVE FAKRA ANTENNA Order code: 003R-00235																		
MOBILE ADHESIVE SMA ANTENNA Order code: 003R-00263																		
MOBILE ADHESIVE FAKRA ANTENNA Order code: 003R-00177																		
MOBILE MAGNETIC SMA ANTENNA Order code: 003R-00229		•		•														
MOBILE SMA ANTENNA Order code: 003R-00225																		
WIFI MAGNETIC SMA ANTENNA Order code: 003R-00230																		
WIFI SMA ANTENNA Order code: 003R-00224		1					•	•		•	•	·						
WIFI DUAL BAND MAGNETIC SMA ANTENNA Order code: 003R-00247							1. T								•	•	•	·
WIFI DUAL BAND SMA ANTENNA Order code: 003R-00249															•	•	•	•
BLUETOOTH SMA ANTENNA Order code: 003R-00256																		
COMPACT MOBILE ANTENNA Order code: 003R-00279								•										
STRAIGHT COMPACT MOBILE ANTENNA Order code: 003R-00281																•		
COMPACT DIN RAIL KIT Order code: 088-00270										•	•	•						
DIN RAIL KIT Order code: 088-00267																		
SURFACE MOUNTING KIT Order code: 088-00260						•					•							
TRB DIN RAIL KIT Order code: 088-00256																		

OIL & GAS PIPELINE MONITORING



ENERGY & UTILITIES

Our lives depend on energy and while many countries are working towards more sustainable future with development focused on renewable energy sources, oil & gas remain the most popular sources of energy today. Combined, oil & gas account to more than 60% of the global energy consumption, according to BP estimates.

SOLUTION

Pipeline infrastructure is usually placed in remote areas where wired Internet connectivity is not available. The satellite communications are still highly expensive, however global expansion of 4G LTE coverage enables Oil & Gas companies to implement a wide pipeline flow monitoring network by using dedicated flow meters which output data using industrial protocols. In many cases serial communication with RS-485 and Modbus industrial protocol is used. The data generated by the flow meter must be obtained and forwarded to control centers, SCADA systems to aggregate and interpret centrally. TRB145 Serial IoT Gateway by Teltonika Networks is perfect for such applications - with RS-485 interface, Modbus RTU Master functionality and 4G LTE Cat1 it is able to periodically read flow meter information and send gathered data to remote HTTP/ HTTPS servers or various IoT platforms using MQTT. Finally, wide power supply range and low energy consumption allows TRB145 to be powered up by combining solar power and batteries.

BENEFITS

/Low-cost and quick to deploy – multiple TRBs can be simultaneously configured immediately using Teltonika Remote Management System (RMS).

/High availability and low data cost – 4G LTE is highly available globally and cost efficient due to low amounts of data needed for this application.

/Data security – TRB145 supports advanced data protection with embedded Firewall and encryption with multiple VPN services available, such as OpenVPN, IPsec, PPTP, L2TP and others. /Immediate notifications – if preset flow values fall out of defined

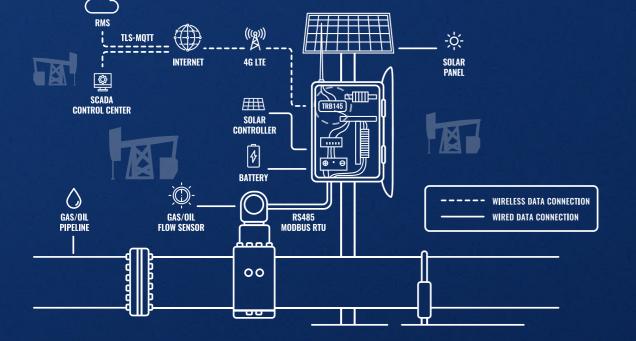
/Immediate notifications – if preset flow values fall out of defined criteria, system operators can setup TRB145 to receive immediate alarms

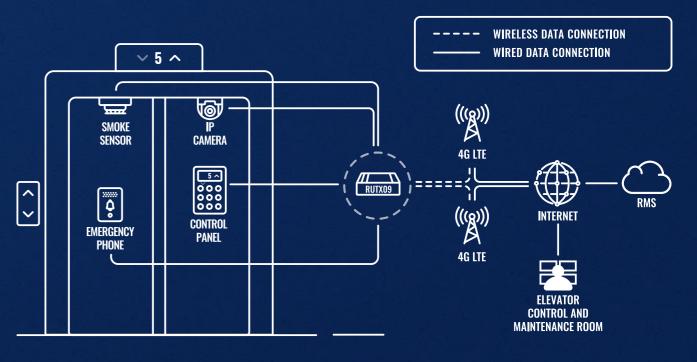
ELEVATOR CONNECTIVITY

Today, we see massive growth in urban development. New shopping malls, skyscrapers, hospitals, offices are built all over the world. All these buildings have many things in common, but the most important one is an elevator. According to Statista, the elevator market size in 2018 exceeded 90 billion USD, and there are forecasts that the market will grow up to 135 billion USD by 2026. This means that every day many elevators must be installed and maintained.

SOLUTION

All maintenance companies invest in security systems and reliability to optimize their operations and reduce the potential need for physical maintenance traveling to all locations where they have elevators deployed. Since the whole solution is subject to a risk of failure, there must be a reliable way to provide a stable and secure Internet connectivity. Our partners connect all parts of such an elevator solution to our RUTX09 industrial cellular router. It is equipped with 4G LTE Cat6 & 2 SIM card slots, which ensures additional connection reliability through the failover feature. Also, it has four gigabit Ethernet interfaces – sufficient to connect all solution components. Furthermore, it runs our RutOS operating







system designed with a multitude of security services such as multiple VPN's, firewalls, DDOS attack prevention features, and more. The whole solution can be easily controlled and monitored remotely by using our software system RMS – Remote Management System

BENEFITS

/Internet failover – possibility to use two different operator SIM cards for internet backup and failover.

/Security – our products have been tested and validated by the most prominent ISP across the globe.

/Easy to use – RUTX09 is powered by our RutOS, which has a very friendly user interface - easy to use and understand. /Alerts and notifications – if an error occurs, you can be sure that

/Alerts and notifications – if an error occurs, you can be sure that with the help of RMS, you will get alerts and notifications as soon as possible, saving your time and costs.

REMOTE TOWER SITE MANAGEMENT



BOAT AND YACHT CONNECTIVITY TRANSPORTATION

Europe and North America have witnessed high demand for recreational boats during the forecast period as the commercial adoption of boats have increased in these regions. With over 37 000 kilometers of inland waterways and over 70 000 kilometers of coastline, Europe offers its 48-million citizens a perfect ecosystem to participate in recreational marine activities annually. Countries such as Belgium and Croatia have witnessed significant growth in the recreational boat market. There are an estimated 6 million boats kept in European waters.

SOLUTION

As we can see in the topology, there are possibilities to use different products form Teltonika Networks portfolio depending on the size of the vessel and the demanded solution. There are numerous applications when Internet connectivity on a boat is essential: weather forecasts, voyage planning, CCTV monitoring. However, when it comes to recreational services – marketing value can be just as significant. With public WiFi service on a boat, trip operators can provide additional value to the consumers while offsetting the costs of mobile data plans with interactive captive portals and digital advertising. Moreover, such tools provide valuable data to help

According to GSMA, there are more than 5.2 billion unique mobile subscribers and more than 9 billion mobile connections worldwide. This number includes cellular IoT subscribers and is continuously growing as the world is moving forward towards digitalization. As the number of subscribers and providers is growing, the need for more cellular base stations is also increasing rapidly

SOLUTION

The cellular base station tower site is a complex infrastructure solution since it includes various elements, as mentioned above. However, most of those parts are connected directly to the tower site controller (also called site manager), which jointly monitors and allows to control everything using a single platform. These tower site controllers need to be connected to the Internet. Our partners are using the RUTX11 to ensure a secure and reliable connection, which grants the tower site controller connecting additional components like CCTV cameras or access control barriers. Furthermore, every maintenance company must have alerts and notifications if

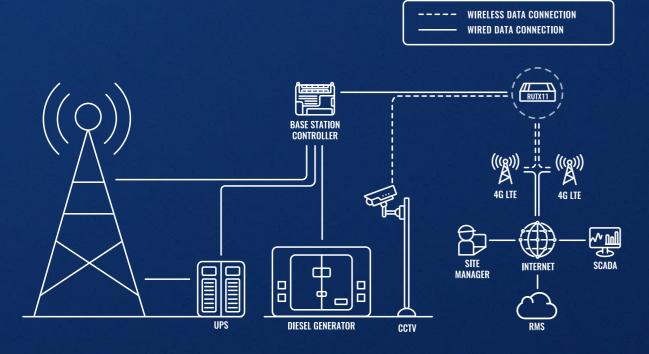
something happens to the system. In this case, the whole system is controlled remotely via site management software, and our router – RUTX11 - is managed and controlled via RMS – Remote Management System. The RMS ensures that RUTX11 gets all the latest firmware updates and can provide valuable alerts and usage reports.

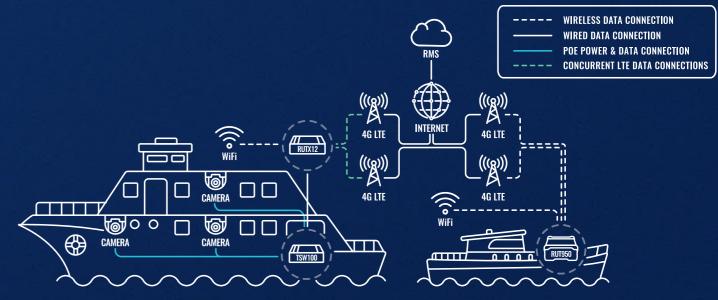
BENEFITS

/Reliability – our RUTX11 has two SIM card slots, meaning that you can use two different operators for the best internet connection reliability.

/Wireless interfaces – RUTX11 has 2.4 & 5 GHz Wi-Fi included, which enables integrators to provide internet to various devices without additional cabling.

/Remote control – our product can act as a gateway between the controller and software system for control and management. /Remote configuration – having thousands of sites can be a nightmare; however, with RMS, it is possible to configure all Teltonika routers remotely at once!







further develop a growing customer base. Both devices RUT950 and RUTX12 are compatible with the Remote Management System - IoT platform for Teltonika Networks devices. With the help of it, you can ensure that you are always connected to your property remotely, you can set the alerts if the boat or yacht has left the geofence area, which you have specified on the platform.

BENEFITS

/Performance - RUTX12 with 2 LTE CAT 6 cellular modules working simultaneously provide speeds up to 600 Mbps and is ready for industrial applications with rugged aluminium housing, wide operating temperature range, and resistance to vibrations.

/Functionality – RUT950 has 2 SIM card slots, which provides flexibility to choose between different mobile operators in different areas.

/Remote monitoring – with RMS, you can conveniently monitor your property, get notifications about any undesirable issues with both RUTX12 and RUT950.

/Security – with advanced RutOS features, RUTX12 and RUT950, offer multiple VPN options, embedded firewall, and other security features to comply with high-security standards.

OUT-OF-BAND MANAGEMENT FOR CISCO ISR



certified professional engineer to travel to a remote site, debug and solve a problem are significantly higher than upgrading existing PSTN infrastructure to reliable and secure remote access solution for out-of-

/Fast deployment – multiple RUT955s can be quickly preconfigured for out-of-band management using Teltonika RMS.

/Reduced network maintenance costs – even one on-site visit by a certified technical support engineer can be more expensive than installing a single RUT955 for out-of-band management.

/Support speed – a professional engineer can access the console interface of an ISR remotely immediately and resolve any arising issues avoiding time zone differences and traveling time to site.

band management.

BENEFITS

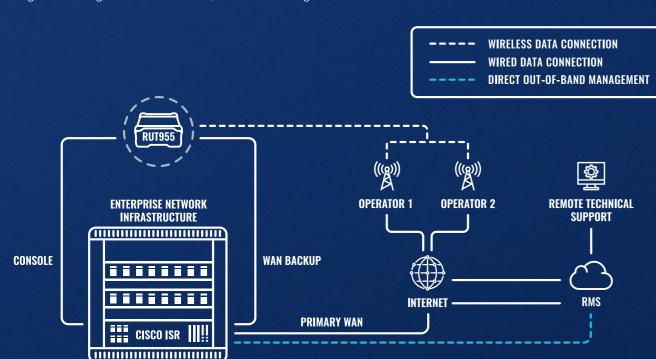
4G CONNECTIVITY IN VENDING MACHINES

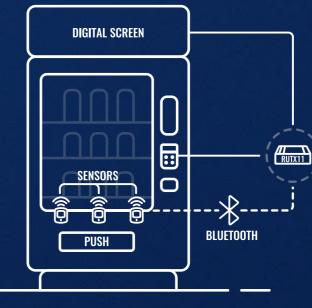
RETAIL

The worldwide vending machine market is valued more than 5.8 billion USD and will grow to nearly 7 billion USD in 2024, according to the MarketWatch. The habits of the people are changing. Due to the faster pace of life, everybody is trying to save as much time as possible. This leads to a shift in buyer behaviour; more and more customers buy drinks, food, and other products from vending machines since it is simpler and way faster than going to a grocery store.

SOLUTION

Connection reliability is the most crucial feature for the vending machine market since all parts of the solution are connected to one single device. If the machine loses connectivity to the Internet, most of these solution components would stop functioning. Installing a professional cellular router, like RUTX11, vending machine operators and integrators can connect all parts of the vending solution to a single device and have internet backup because RUTX11 is equipped with 4G LTE Cat 6 with 2 SIM cards supported. The whole solution can be monitored via RMS, which gives the possibility to





Out-of-band management has long been used to access a remote site or device, as a way to monitor, restore service or determine an issue affecting service. In the past, the most popular method of outof-band access was the PSTN (Public Switched Telephone Network), via analog POTS lines (Plain Old Telephone Service) or ISDN lines (Integrated Switched Digital Network). Dial-up modems or ISDN equipment attached to remote site devices would accept incoming calls from an administrator at the main site. These lines are still in common use today.

SOLUTION

The most reliable option for remote site monitoring is having a certified network technician on-site at all times, though in most cases costs of doing so are too large to justify. Most commonly such engineers are hired by dedicated businesses offering technical support services which delegate their technical engineers on-demand to the location of client's infrastructure in case the main router is unreachable over its wired Internet connection. In the majority of cases, a simple reboot or configuration change is needed. However, the costs of hiring a



get notifications and alerts if something unexpected happens. Also, RUTX11 works as a gateway to the service center, allowing operators to monitor the stock levels inside the vending machine and make efficient decisions for refilling the machine.

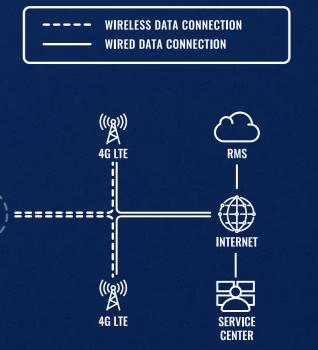
BENEFITS

Wersatility - RUTX11 is perfect for this solution since it is compatible with different devices including Bluetooth sensors, payment terminal and digital screen using Ethernet and Wi-Fi interfaces /Reliability - Dual SIM is an essential feature for internet backup and

/Reliability - Dual SIM is an essential feature for internet backup and reliable connectivity, ensuring that connection is not lost even in the event of cellular operator disruptions

/Remote management - RUTX11 is fully compatible with Teltonika Networks Remote Management System (RMS) which enables robust remote monitoring and management capabilities

/Security - RUTX11 supports advanced firewall, access control and multiple VPN options, such as OpenVPN, IPsec, and others – essential for ensuring electronic payment functionality.









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