Router & Gateway Overview

TELTONIKA | Networks

SECTRON

SECTRON is an official authorized partner to sell and instal TELTONIKA networking products designed to make your connectivity reliable, secure and quick to deploy. TELTONIKA products will help you build a solid IoT, M2M or enterprise networking infrastructure and advanced remote management capabilities will enable you to manage it with ease.

Portfolio Highlights

Teltonika Networks designed their product portfolio to help partners access opportunities within the rapidly growing IoT and Industrial IoT space. The portfolio consists of modems, gateways, routers, switches, and IoT platforms. Teltonika has grown to be one of the leaders of cellular IoT devices for industrial and professional applications. From automation, smart grid, to public transport connectivity – hundreds of thousands of Teltonika's networking products are currently at the heart of worldwide solutions.

Routers comparison

Products key features	RUT140	RUT142	RUT200	RUT206	RUT241	RUT241 eSIM	RUT260	RUT271	RUT301	RUT361	RUT901	RUT906	RUT951	RUT956	RUT976
5G								RedCap							RedCap
4G/LTE category			Cat4	Cat4	Cat4	Cat4	Cat6	Cat4		Cat6	Cat4	Cat4	Cat4	Cat4	Cat4
3G			•	•	•	•	•			•	•	•	•	•	
2G			•	•	•	•				•	•	•	•	•	
CPU (MHz)*	580	580	580	580	580	580	580	580	580	580	580	580	580	580	580
RAM (MB)	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
Flash memory (MB)	16	16	16	32	16	16	16	32	16	16	16	16	16	16	16
Passive PoE-in	•	•	•	•	•	•	•	•			•	•	•	•	•
Power voltage (V DC)	9-30	9-30	9-30	9-57	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30	9-30
SIM card slots			1	2	1	1	1	1		1	2	2	2	2	2
eSIM						•									
Ethernet ports	2	2	2	2	2	2	2	2	5	2	4	4	4	4	4
Ethernet speed (Mbps)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Wi-Fi standard	n	n	n	n	n	n	n	n		n	n	n	n	n	n
GNSS												•		•	•
Inputs/Outputs			2		2	2	2		2	4	4	2	7	2	7	7
RS232		•	•									•		•	•
RS485			•									•		•	•
Bluetooth															
USB									Host			Host		Host	Host
Integrated DIN bracket	•	•													
Grounding terminal	•	•													
RMS support	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RutOS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Products key features	RUTM08	RUTM09	RUTM10	RUTM11	RUTM30	RUTM31	RUTM50	RUTM51	RUTM52	RUTM54	RUTM55	RUTM56	RUTM59	RUTC50
5G					•	•	•	•	2×5G	•	•	•	•	•
4G/LTE category		Cat6		Cat6	Cat19	Cat12	Cat19	Cat12	Cat20	Cat19	Cat19	Cat19	Cat19	Cat20
3G		•		•	•		•	•				•		
2G												•		
CPU (MHz)*	2×880	2×880	2×880	2×880	2×880	2×880	2×880	2×880	2×880	2×880	2×880	2×880	2×880	2×1300
RAM (MB)	256	256	256	256	256	256	256	256	256	256	256	256	256	512
Flash memory (MB)	256	256	256	256	256	256	256	256	256	256	256	256	256	512
Active PoE-out														
Active PoE-in														
Passive PoE in	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Power voltage (V DC)	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50
SIM card slots		2		2	2	2	2	2	2	2	2	2	2	2
eSIM					•				•	•	•	•		
Ethernet ports	4	4	4	4	2	2	5	5	5	5	4	5	5	5
Ethernet speed (Mbps)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Wi-Fi standard		ac	ac	ac	ac	ac	ac	ac	ac	ac	ac	ac		ax
GNSS		•		•		•			•	•	•	•	•	•
Inputs/Outputs	2	2	2	2	2	2	2	2	2	2	2	2	2	2
RS232												•		
RS485												•		
Bluetooth														
USB	Host	Host	Host	Host			Host	Host		Host	Host		Host	Host
Integrated DIN bracket														
Grounding terminal	•	•	•	•			•	•	•	•		•	•	•
RMS support	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RutOS	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* 2×... - Dual-core; 4×... - Quad-core

Routers comparison

Products key features	RUTX08	RUTX09	RUTX10	RUTX11	RUTX12	RUTX14	RUTX50	RUTXR1	OTD140	OTD500
5G							•			•
4G/LTE category		Cat6		Cat6	2×Cat6	Cat12	Cat20	Cat6	Cat4	Cat19
3G		•		•	•	•	•	•	•	•
2G									•	
CPU (MHz)*	4×717	4×717	4×717	4×717	4×717	4×717	4×717	4×717	580	2×880
RAM (MB)	256	256	256	256	256	256	256	256	128	256
Flash memory (MB)	256	256	256	256	256	256	256	256	16	256
Active PoE-out									802.3af	802.3af
Active PoE-in									•	•
Passive PoE in	•	•	•	•	•	•	•			
Power voltage (V DC)	9-50	9-50	9-50	9-50	9-50	9-50	9-50	9-50	42.5-57	42.5-57
SIM card slots		2		2	2	2	2	2	2	2
eSIM							•			•
Ethernet ports	4	4	4	4	5	5	5	5	2	2
Ethernet speed (Mbps)	1000	1000	1000	1000	1000	1000	1000	1000	100	1000
Wi-Fi standard			ac	ac	ac	ac	ac	ac		
GNSS		•		•	•	•	•			
Inputs/Outputs	2	2	2	2	2	2	2			
RS232										
RS485										
Bluetooth			•	•	•	•				
USB	Host	Host	Host	Host	Host	Host	Host	Host		
Integrated DIN bracket										
Grounding terminal	•	•	•	•	•	•	•	•		
RMS support	•	•	•	•	•	•	•	•	•	•
RutOS	•	•	•	•	•	•	•	•	•	•

Switches comparison

Products key features	TSW010	TSW030	TSW040	TSW100	TSW101	TSW110	TSW114	TSW200	TSW202	TSW210	TSW212	TSW304	TSF010
Managed									•		•		
MRP									•		•		
STP/RSTP									•		•		
Profinet									•		•		
EtherNet/IP									•		•		
QoS									•		•		
Passive PoE-in	•					•	•					•	
Active PoE-out				802.3 af/at	802.3 af/at	802.3 af/at		802.3 af/at	802.3 af/at				
Power voltage (V DC)	9-30	7-57	7-57	7-57	9-30	9-30	9-30	7-57	5-57	7-57	7-57	7-57	7-57
Ethernet ports	5	8	8	5	5	5	5	8	8	8	8	4	5
SFP ports								2	2	2	2		
Ethernet speed (Mbps)	100	100	100	1000	1000	1000	1000	1000	1000	1000	1000	1000	100
Integrated DIN bracket	•	•	•				•	•	•	•	•	•	•
Grounding terminal			•	•	•	•	•	•	•	•	•	•	•
RMS support									•		•		
TswOS									•		•		

Gateways, Modems and Access points comparison

Products key features	TRB140	TRB141	TRB142	TRB143	TRB145	TRB160	TRB246	TRB256	TRB500	TRM200	TRM240	TRM250	TRM500	TAP100	TAP200	DAP140	DAP142
	GATEWAYS									MODEMS				ACCESS POINTS			
5G									•				•				
4G/LTE category	Cat4	Cat1	Cat1	Cat4	Cat1	Cat6	Cat4	M1/NB	Cat20	Cat4	Cat1	M1/NB	Cat19				
3G	•	•	•	•	•	•	•	NB2	•	•	•		•				
2G	•	•	•	•	•	•		EGPRS		•	•	•					
CPU (MHz)	1200	1200	1200	1300	1200	1200	580	580	1500					580	2×880	580	580
RAM (MB)	128	128	128	256	128	128	128	128	256					64	256	128	128
Flash memory (MB)	512	512	512	512	512	256	16	16	512					16	16	16	16
Active PoE-in														•	•		
Passive PoE	•				•		•									•	•
Power voltage (V DC)	9-30	9-30	9-30	12-30	9-30	9-30	9-30	9-30	9-30	5	5	5	9-30	44-57	44-57	9-30	9-30
SIM card slots	1	1	1	1	1	1	2	2	1	1	1	1	1				
Ethernet ports	1			1		1	1	1	1					1	1	2	2
Ethernet speed (Mbps)	1000			1000		1000	100	100	1000					100	1000	100	100
Wi-Fi standard														n	ac	n	n
GNSS							•	•									
Inputs/Outputs	2	8	2	2	2	2	7	7	2								
RS232		•					•	•									•
RS485					•		•	•									
USB	Client	Client	Client		Client	Power/Data			Client	Power/Data	Power/Data	Power/Data	Power/Data				
Integrated DIN bracket																•	•
RMS support	•	•	•	•	•	•	•	•	•					•	•	•	•
RutOS	•	•	•	•	•	•	•	•	•					•	•	•	•
M-Bus				•													

Outdoor Antenna comparison

Products key features	RUTX50 and RUTM50 series	RUT2xx series	RUT9xx series	RUTX11 and RUTM11 series
Mobile antenna	4×	2×	2×	2×
Gain	Max. 4.5 dBi	Max. 4 dBi	Max. 4.5 dBi	Max. 4.5 dBi
V.S.W.R	<2.5	<2.0	<2.5	<2.5
Connector type	4× SMA male	2× SMA male	2× SMA male	2× SMA male
Wi-Fi antenna	2×	1×	2×	2×
Gain	Max 7.5 dBi	6 dBi	Max 7.5 dBi	Max. 7.5 dBi
V.S.W.R	<2.0	<2.0	<2.0	<2.0
Connector type	2× RP-SMA male	1× RP-SMA male	2× RP-SMA male	2×RP-SMA male
GNSS antenna	1		1×	1×
Gain	28 dBi		28 dBi	28 DBI
V.S.W.R	<2.0		<2.0	<2.0
Connector type	1× SMA male		1× SMA male	1×SMA male
Supply voltage (VDC)	2.5-6.5		2.5-6.5	2.5-6.5
Bluetooth antenna				1×
Gain				2 dBi
V.S.W.R				<2.0
Connector type				1× RP-SMA male*
Cable	6× RG316, 1× RG174	3× RG316	4× RG316, 1× RG174	5× RG316, 1× RG174
Operating temperature	-40 ℃ to 75 ℃	-40 ℃ to 75 ℃	-40 ℃ to 75 ℃	-40 ℃ to 75 ℃
Mounting	wall, ceiling, mast	wall, ceiling, mast	wall, ceiling, mast	wall, ceiling, mast
IP rating	IP67	IP67	IP67	IP67
Weight	1500 g	1500 g	1500 g	1500 g

* The Bluetooth antenna is not utilised when used with the RUTM11

Use Cases

RUTX50 5G for Camper internet & Camping Wi-Fi

The RUTX50 is a 5G router with GNSS, capable of reaching cellular speeds of up to 3.3 Gbps and Wi-Fi 5 with data transmission rates of up to 867 Mbps. It also has 5 Ethernet ports for wired connections to any in-vehicle devices that could use the most minimal latency possible, such as a gaming console. Indeed, 5 is the magic number.

The RUX50 is packed with reliability features to keep your RV Wi-Fi seamless and uninterrupted. It isn't just another 5G router with a SIM card slot – it has 2 SIM cards slots and failover functionality. This not only keeps the connection running smoothly even if one of the cards is interrupted or if you cross the border, but it also saves costs on operator charges.

This 5G router is also capable of switching to 4G LTE Cat20 in case 5G isn't available at any given location, and can use both SA/NSA 5G architectures. Last but not least, Teltonika Networks offers a tailor-made 5G combo MIMO antenna that's the perfect RV Wi-Fi antenna for the job.

The RUTX50 is compatible with any type of RV battery, and does not require any special apps or complex installation. This 5G router is built to survive the harshest of environmental conditions, with a sturdy aluminum housing and resistance to vibrations and extreme temperatures between -40 °C to 75 °C.
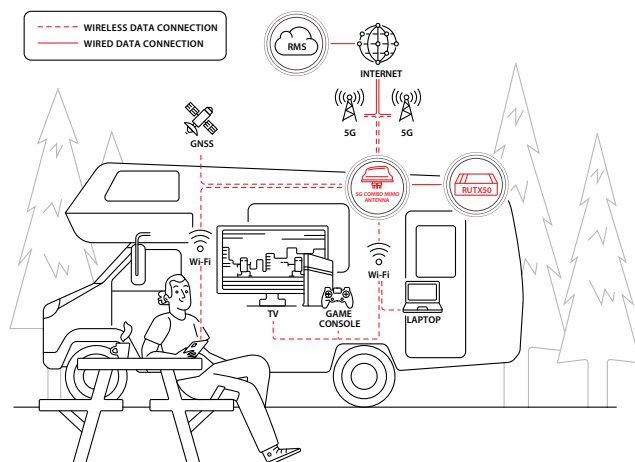
RUT956 Case study for public transport

RUT956 by Teltonika is a single device able to address most onboard connectivity challenges with ease. It is favored amongst our partners in the transport field due to a reliable connection, which it is able to provide using auto switching dual SIMs, a large number of physical interfaces and E-mark certification ensuring full compliance with a number of important requirements when mounting additional devices in aftermarket automotive vehicles.

- Provides accurate location tracking services using an embedded GNSS module
- Connects up to seven 1080p30 CCTV IP security cameras due to robust and reliable Cat4 LTE
- Provides secure passenger hotspot with advertising and landing page for convenient and managed browsing
- Empowers Digital Signage screens across the vehicle for informational and advertising services
- Gives connectivity to existing or new ticketing terminals via Ethernet or Serial to ensure card payments or collect and upload ticketing statistics to operator's platform
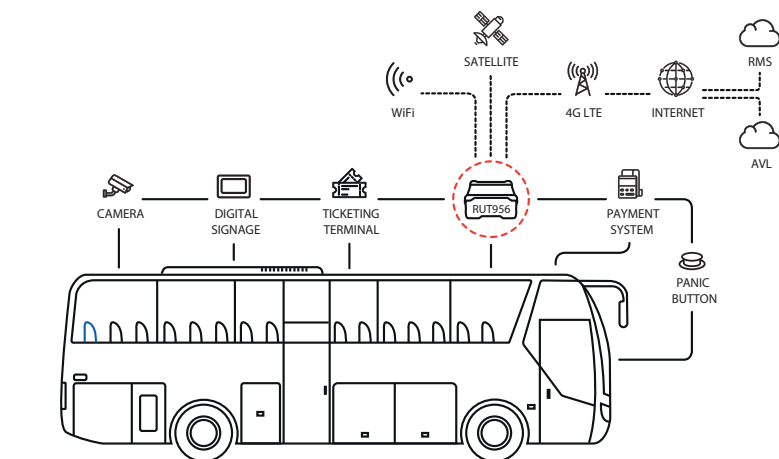
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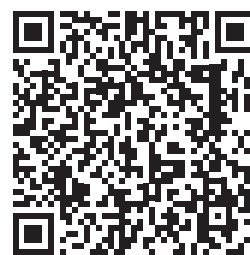
Product Catalogue

Remote Management System

Teltonika Networks Remote Management System is an all-in-one, user-friendly IoT platform providing an easy way to stay on top of your connected solution. It is a powerful software that allows remote access and management of all connected Teltonika Networks and third party devices.

Management
Gain complete and secure control over your fleet of Teltonika networking devices—no public IP needed

Connection
Secure your entire remote infrastructure quickly and easily with robust VPN connections

VPN
Reach and remotely control your end devices connected to RMS compatible devices

Security
- Developed in-house, RMS ensures secure communication and data integrity by adhering to the strictest privacy and cybersecurity standards set by the European Union

Applications
- RMS VPN for direct VPN access and automatic client syncing
- Mobile app for iOS and Android
- Teltonika ID for two-factor authentication

Customization
- Adapt RMS to your solutions using custom control functions, alerts, and automation schemes

Availability
- RMS is free to start: creating a RMS account, adding Teltonika networking devices and testing its capabilities can all be done free of charge

Hosting
- Hosted on AWS: a leading cloud server synonymous with security, scalability and high availability

Pricing
Long-term or flexible licensing options for modular and cost-effective pricing

Capabilities
- Full management capabilities of supported Teltonika networking devices, including remote onboarding, custom alarms, firmware updates, automatic backups, performance analysis and more
- Secure and direct access to third-party devices via RMS Connect or VPN

RutOS

RutOS is an unified operating system based on OpenWRT used by all Teltonika-Networks devices. This system enables our customers to have an excellent user experience using Teltonika routers since all the devices are easy to use due to an intuitive interface. This system enables our clients to cut their cost on engineer training while implementing new devices. Moreover, it empowers to be flexible when migrating between different devices and platforms. Lastly, the system is open source, therefore, every client can change and adopt RutOS in order to get the most out of each and every Teltonika-Networks device.

Reliable
Enhanced uninterrupted connectivity and protocol support for your IoT needs

Secure
Full of security features and failsafes to ensure maximum device and network security

Easy to use
Streamlined and customisable UX for simple yet comprehensive management

TswOS

OpenWRT-based Linux OS designed for easy and comprehensive managed switch workflow

Seamless
Numerous DHCP options for enhanced network stability and control

Secure
Comprehensive authentication features for enhanced security and access control

Reliable
Remote port management, ensuring uninterrupted network performance

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