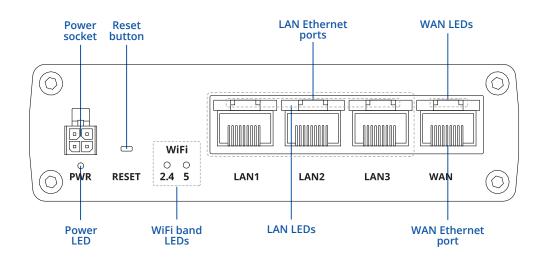




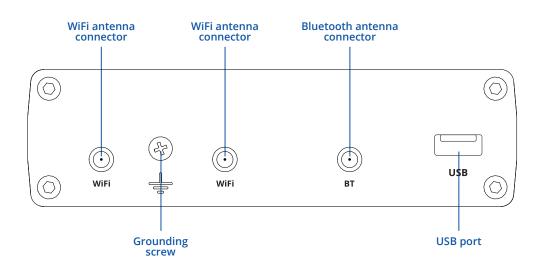


HARDWARE

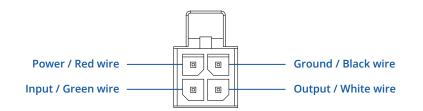
FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT





FEATURES

ETHERNET

Writeries Access Pair (AP), Station (STA) WiFi security WPA3-EAP, WPA3-EAF, WPA2-Enterprise-PEAP, WPA2-PSK, WEP; AES-CCMP, TKP, Auto Cipher modes, client separation ESID ESID (SD) Statish mode WiFi security up to 150 simultaneous connections WiFi sers up to 150 simultaneous connections Bluetooth Captive portal (Hotspot), internal/external Radius server, built in customizable landing page BLUETOOTH Bluetooth low energy (LE) for short range communication NETWORK Routing Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP) Network protocols CTC, UDP, IPv4, IPv5, CMP, NTP, DNS, HTTP, HTTP, STTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, EUPNP, SSH, DHCP, Telenc client, SNMP, MGT, Wake on LAN (WOLD, DUNA VolP passibirough support H.323 and SIP-aig protocol NAT helpers, allowing proper routing of VoIP packets Connection monitoring Ping Reboot, Wget reboot, Periodic Reboot, LCP and ICMP for link inspection Firewall Port forwards, traffic rules, custom rules OD/CP Static and dynamic IP allocation, DHCP Relay, Relayd Q05 / Smart Queue Traffic priority queue by source/destination, service, protocol or port, WMM, 802.11e DNS Supported -25 service providers, SLOP centificates SHFS	ETHERNET		
UN crossover WIRELESS Bluetooth Low energy (LE) for short range communication NETWORK Routing Papenon Data Mark Macon LAN (WOR) DAL (LEAR, NTP, NTP, STE	WAN		
B02.11 b/g/r/ac Wave 2 (WF; 5) with data transmission rates up to 867 Mbps (Dual Band, ML-MIMO), 802.11r (fast transloom, Access Point (AP), Station (STA) WiFeless mode WP3-SAP, WPA2-Enterprise-PEAP, WPA2-PSK, WEP; AES-CCMP, TKIP, Auto Cipher modes, client separation ESSID ESSID stealth mode WIF Exers up to 150 simultaneous connections Wireless Hotspot Captive portal (Hotspot), internal/external Radius server, built in customizable landing page BLUETOOTH Bluetooth low energy (LE) for short range communication NETWORK Routing Static routing: Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP) Network protocols TCP, UDP, IPA4, IPA6, CMP, NTP, DNS, HTP; HTPS, STP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PEPPE, UPNP, SSH, DHCP, Tellec client, SNRP, MOTT, Wake on LAN (WOL), DLNA VaIP passthrough support H.323 and SIP-aig protocol NAT helpers, allowing proper routing of VoIP packets Connection monitoring Ping Reboot, Wger relator, Deriodic Reboot, LCP and LCP for link inspection Frewall Port forwards, traffic rules, custom rules DFCP Static and dynamic IP allocation, DHCP Relay, Relayd OS / Smart Ouce Traffic priority queuing by source/destination, service, protocol or port. WMM, 802.11e DDNS Supported -25 service providers, others can be conblexed as an automatic Failover <td>LAN</td> <td></td>	LAN		
Writeries Access Pair (AP), Station (STA) WiFi security WPA3-EAP, WPA3-EAF, WPA2-Enterprise-PEAP, WPA2-PSK, WEP; AES-CCMP, TKP, Auto Cipher modes, client separation ESID ESID (SD) Statish mode WiFi security up to 150 simultaneous connections WiFi sers up to 150 simultaneous connections Bluetooth Captive portal (Hotspot), internal/external Radius server, built in customizable landing page BLUETOOTH Bluetooth low energy (LE) for short range communication NETWORK Routing Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP) Network protocols CTC, UDP, IPv4, IPv5, CMP, NTP, DNS, HTTP, HTTP, STTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, EUPNP, SSH, DHCP, Telenc client, SNMP, MGT, Wake on LAN (WOLD, DUNA VolP passibirough support H.323 and SIP-aig protocol NAT helpers, allowing proper routing of VoIP packets Connection monitoring Ping Reboot, Wget reboot, Periodic Reboot, LCP and ICMP for link inspection Firewall Port forwards, traffic rules, custom rules OD/CP Static and dynamic IP allocation, DHCP Relay, Relayd Q05 / Smart Queue Traffic priority queue by source/destination, service, protocol or port, WMM, 802.11e DNS Supported -25 service providers, SLOP centificates SHFS	WIRELESS		
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Wirk users up to 150 simultaneous connections Wireless Hotspot Captive portal (Hotspot), internal/external Radius server, built in customizable landing page BLUETOOTH Bluetooth 4.0 Bluetooth low energy (LE) for short range communication NETWORK Routing Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP) Network protocols TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, TLS, ARP, VBRP, PPP, PPPoE, UPNP, SSH, DHCP, Telne Calent, SMMP, MQTT, Wake on LAN (WGL), DLVA. VOIP passthrough support H.222 and SIP-alg protocol NAT helpers, allowing proper routing of VoIP packets Connection monitoring Ping Reboot, Weger roboot, Periodic Reboot, LCP and ICMP for link inspection Frewall Port forwards, traffic rules, custom rules DHCP Static and dynamic IP allocation, DHCP Relay, Relayd Q6 / Shart Grueye Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e DDNS Supported >25 service providers, others can be configured manually Network backup VRRP, Wired and WIFI WAN options, each of which can be used as an automatic Failover SSHFS Possibility to mount remote file system via SSH protocol SECURITY Pre-configured firewall rules can be enabled via WebUJ, unlimited firewall configuration via CLI; DMZ; NAT; NAT-	WiFi security	WPA3-EAP, WPA3-SAE, WPA2-Enterprise-PEAP, WPA2-PSK, WEP; AES-CCMP, TKIP, Auto Cipher modes, client separation	
Wirdess Hotspot Captive portal (Hotspot), internal/external Radius server, built in customizable landing page BLUETOOTH Bluetooth 1ow energy (LE) for short range communication NETWORK Routing Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP) Network protocols CTP, UDP, IPv4, IPv6, ICMP, NTP, DN5, HTTP, HTTP5, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telne client, SNMP, MQ1T, Wake on LAN (WOL), DLNA VolP passibrough support H.323 and SIP-aig protocol NAT helpers, allowing proper routing of VolP packets Connection monitoring Ping Reboot, Wge reboot, Periodic Reboot, LCP and ICMP for link inspection Firewall Port forwards, traffic rules, custom rules DHCP Static and dynamic IP allocation, DHCP Relay, Relayd Q05 / Smart Queue Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e DNS Supported >25 service providers, others can be configured manually Network backup VRRP, Wired and WIFI WAN options, each of which can be used as an automatic Failover SSHPS Possibility to mount remote file system via SSH protocol SECURITY Authentication Pre-shared key, digital certificates, X.509 certificates VLAN Port and tag based VLAN separation MET Armas, Natth Austh, Severention, ICYN Hotsp	ESSID	ESSID stealth mode	
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Bluetooth 4.0 Bluetooth low energy (LE) for short range communication NETWORK Reuting Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP) Network protocols TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTP5, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPeE, UPNP, SSH, DHCP, Telne client, SMMP, MQTT, Wake on LAN (WOL), DLNA YolP passthrough support H.323 and SIP-aig protocol NAT helpers, allowing proper routing of VoIP packets Connection monitoring Ping Reboot, Wget reboot, Periodic Reboot, LCP and ICMP for link inspection Firewall Port forwards, traffic rolles, custom rules DHCP Static and dynamic IP allocation, DHCP Relay, Relayd QoS / Smart Queue Traffic priority queuing by source/destination, service, protocol or port, WIMM, 802.11e DDNS Supported >25 service providers, others can be configured manually Network backup VRRP, Wired and WiFI WAN options, each of which can be used as an automatic Failover SSHFS Possibility to mount remote file system via SSH protocol SECURITY Authentication Authentication Pre-shared key, digital certificates, X.509 certificates Firewall Pre-configured firewall rules can be enabled via WebUL, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T Attack prevention SDN Prestround	Wireless Hotspot	Captive portal (Hotspot), internal/external Radius server, built in customizable landing page	
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NetWork protocols client, SNMP, MQTT, Wake on LAN (WOL), DLNA VoIP passthrough support H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VoIP packets Connection monitoring Ping Reboot, Wget reboot, Periodic Reboot, LCP and ICMP for link inspection Firewall Port forwards, traffic rules, custom rules DHCP Static and dynamic IP allocation, DHCP Relay, Relayd QoS / Smart Queue Management (SQM) Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e DDNS Supported >25 service providers, others can be configured manually Network backup VRRP, Wired and WiFi WAN options, each of which can be used as an automatic Failover SSHFS Possibility to mount remote file system via SSH protocol SECURITY Authentication Authentication Pre-shared key, digital certificates, X.509 certificates Firewall Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T DDOS prevention (SVN flood protection, SSH attack prevention, HTTP/HTPS attack prevention), port scan prevention (SVN sVN, STT, X-mas, NULL flags, FIN scan attacks) VLAN Port and tag based VLAN separation WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Acc	Routing	Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP)	
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Management (SQM) Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e DDNS Supported >25 service providers, others can be configured manually Network backup VRRP, Wired and WiFi WAN options, each of which can be used as an automatic Failover SSHFS Possibility to mount remote file system via SSH protocol SECURITY Authentication Authentication Pre-shared key, digital certificates, X.509 certificates Firewall Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T Attack prevention DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-f SYN-RST, X-mas, NULL flags, FIN scan attacks) VLAN Port and tag based VLAN separation WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DES-X-CBC, BF-CBC, CAST5-CBC, CAST5-CBC, AES-128-CBC, AES-128-CBC, AES-128-CBC, AES-128-CBC, CAST-2-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES,	DHCP	Static and dynamic IP allocation, DHCP Relay, Relayd	
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SSHFS Possibility to mount remote file system via SSH protocol SECURITY Authentication Pre-shared key, digital certificates, X.509 certificates Firewall Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T Attack prevention DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FST, X-mas, NULL flags, FIN scan attacks) VLAN Port and tag based VLAN separation WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, CAST5-CBC, CAST5-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	DDNS	Supported >25 service providers, others can be configured manually	
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Authentication Pre-shared key, digital certificates, X.509 certificates Firewall Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T Attack prevention DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-F Attack prevention Port and tag based VLAN separation WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	SSHFS	Possibility to mount remote file system via SSH protocol	
Firewall Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T Attack prevention DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-F YLAN Port and tag based VLAN separation WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE-3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-128-CBC, AES-128-CBC, AES-128-CBC, AES-128-CBC, AES-128-CBC, GRE IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	SECURITY		
Attack prevention DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FST, X-mas, NULL flags, FIN scan attacks) VLAN Port and tag based VLAN separation WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, DES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	Authentication	Pre-shared key, digital certificates, X.509 certificates	
Attack prevention SYN-RST, X-mas, NULL flags, FIN scan attacks) VLAN Port and tag based VLAN separation WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	Firewall	Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T	
WEB filter Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	Attack prevention	DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FIN SYN-RST, X-mas, NULL flags, FIN scan attacks)	
Access control Flexible access control of TCP, UDP, ICMP packets, MAC address filter VPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	VLAN	Port and tag based VLAN separation	
VPN OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	WEB filter		
OpenVPN Multiple clients and a server can run simultaneously, 12 encryption methods OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	Access control	Flexible access control of TCP, UDP, ICMP packets, MAC address filter	
OpenVPN Encryption DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	VPN		
AES-192-CBC, AES-256-CBC IPsec IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256) GRE GRE tunnel	OpenVPN	Multiple clients and a server can run simultaneously, 12 encryption methods	
GRE GRE tunnel	OpenVPN Encryption		
	IPsec	IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256)	
PDTD 12TD Client/Server instances can run simultaneously 12TDv2 support	GRE	GRE tunnel	
Cient/Server instances carrun sinutaneously, E217V5 support	PPTP, L2TP	Client/Server instances can run simultaneously, L2TPv3 support	
Stunnel Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the program's cod	Stunnel	Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the program's code	
DMVPN Method of building scalable IPsec VPNs	DMVPN	Method of building scalable IPsec VPNs	

ZeroTier ZeroTier VPN client support
WireGuard WireGuard VPN client and server support

SSTP client instance support

SSTP



MODBUS TCP SLAVE

ID filtering	Respond to one ID in range [1;255] or any
Allow remote access	Allow access through WAN
Custom registers	Modbus TCP custom register block, which allows to read/write to a file inside the router, and can be used to extend Modbu TCP slave functionality
MODBUS TCP MASTER	
Supported functions	01, 02, 03, 04, 05, 06, 15, 16
Supported data formats	8 bit: INT, UINT; 16 bit: INT, UINT (MSB or LSB first); 32 bit: float, INT, UINT (ABCD (big-endian), DCBA (little-endian), CDAB, BADC), HEX, ASCII
MQTT GATEWAY	
Gateway	Allows sending commands and receiving data from Modbus Master trough MQTT broker
DATA TO SERVER	
DATA TO SERVER	
Protocols	HTTP(S), MQTT, Azure MQTT, Kinesis
Protocols	
Protocols	EMENT
Protocols	
Protocols MONITORING & MANAG	EMENT
Protocols MONITORING & MANAG WEB UI	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log
Protocols MONITORING & MANAG WEB UI FOTA	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification
Protocols MONITORING & MANAG WEB UI FOTA SSH	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification SSH (v1, v2)
Protocols MONITORING & MANAG WEB UI FOTA SSH SMS Call	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification SSH (v1, v2) SMS status, SMS configuration, send/read SMS via HTTP POST/GET
Protocols MONITORING & MANAG WEB UI FOTA SSH SMS Call TR-069	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification SSH (v1, v2) SMS status, SMS configuration, send/read SMS via HTTP POST/GET Reboot, Status, Mobile data on/off, Output on/off
Protocols MONITORING & MANAG WEB UI FOTA SSH SMS Call TR-069	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification SSH (v1, v2) SMS status, SMS configuration, send/read SMS via HTTP POST/GET Reboot, Status, Mobile data on/off, Output on/off OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem
Protocols MONITORING & MANAG WEB UI FOTA SSH SMS Call TR-069 MQTT SNMP	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification SSH (v1, v2) SMS status, SMS configuration, send/read SMS via HTTP POST/GET Reboot, Status, Mobile data on/off, Output on/off OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem MQTT Broker, MQTT publisher
Protocols MONITORING & MANAG WEB UI FOTA SSH SMS Call TR-069 MQTT	EMENT HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log Firmware update from server, automatic notification SSH (v1, v2) SMS status, SMS configuration, send/read SMS via HTTP POST/GET Reboot, Status, Mobile data on/off, Output on/off OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem MQTT Broker, MQTT publisher SNMP (v1, v2, v3), SNMP trap

CPU	Quad-core ARM Cortex A7, 717 MHz
RAM	256 MB, DDR3
FLASH storage	256 MB, SPI Flash

FIRMWARE / CONFIGURATION

WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup
FOTA	Update FW/configuration from server
RMS	Update FW/configuration for multiple devices at once
Keep settings	Update FW without losing current configuration

FIRMWARE CUSTOMIZATION

Operating system	RutOS (OpenWrt based Linux OS)
Supported languages	Busybox shell, Lua, C, C++
Development tools	SDK package with build environment provided

USB

Data rate	USB 2.0
Applications	Samba share, USB-to-serial
External devices	Possibility to connect external HDD, flash drive, additional modem, printer
Storage formats	FAT, FAT32, NTFS



INPUT/OUTPUT

Input	1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high
Output	1 x Digital Output, Open collector output, max output 30 V, 300 mA
Events	Email, RMS
I/O juggler	Allows to set certain I/O conditions to initiate event

POWER

Connector	4 pin industrial DC power socket
Input voltage range	9 - 50 VDC, reverse polarity protection, voltage surge/transient protection
PoE (passive)	Passive PoE. Possibility to power up through LAN port, not compatible with IEEE802.3af, 802.3at and 802.3bt standards
Power consumption	9 W Max

PHYSICAL INTERFACES (PORTS, LEDS, BUTTONS)

Ethernet	4 x RJ45 ports, 10/100/1000 Mbps
I/Os	1 x Digital Input, 1 x Digital Output on 4 pin power connector
Status LEDs	8 x LAN status LEDs, 1 x Power LED, 2 x 2.4G and 5G WiFi LEDs
Power	1 x 4 pin DC connector
Antennas	2 x RP-SMA for WiFi, 1 x RP-SMA for Bluetooth
USB	1 x USB A port for external devices
Reset	Reboot/User default reset/Factory reset button
Other	1 x Grounding screw

PHYSICAL SPECIFICATION

Casing material	Aluminium housing with DIN rail mounting option
Dimensions (W x H x D)	115 x 32.2 x 95.2 mm
Weight	355 g
Mounting options	DIN rail, flat surface placement

OPERATING ENVIRONMENT

Operating temperature	-40 C to 75 C
Operating humidity	10 % to 90 % non-condensing
Ingress Protection Rating	IP30



HARDWARE INSTALLATION

1. Attach all antennas.

Connect the power adapter to the socket on the front of the device. Then plug the other end of the power adapter into a power outlet.
 Connect to the device wirelessly using SSID and password provided on the device information label or use an Ethernet cable connected to LAN port.

LOGIN TO DEVICE

1. To enter the router's Web interface (WebUI), type http://192.168.1.1 into the URL field of your Internet browser.

2. Use login information shown in image A when prompted for authentication.

3. After you log in, you will be prompted to change your password for security reasons. The new password must contain at least 8 characters, including at least one uppercase letter, one lowercase letter, and one digit. This step is mandatory, and you will not be able to interact with the router's WebUI before you change the password.

4. When you change the router's password, the Configuration Wizard will start. The Configuration Wizard is a tool used to set up some of the router's main operating parameters.

CALTENTIKA	
AUTHORIZATION REQUIRED	admin
Please anter your username and password	admin01
	LOG IN

SETUP WIZARD

After logging in to the router's WebUI, you will be prompted to change the default password and the Setup Wizard will start: 1. Choose your time zone and sync the router's time with the browser if needed.

TIME ZONE SETTINGS		
Current system time Thu Mar 7 14:49:06	2019 SYNC WITH BROWSER	
Time zone	EUROPE/VILNIUS	
		SKIP

2. Default LAN settings are recommended unless you have specific requirements for your LAN network.

LAN CONFIGURATION		
IP address	192.168.1.1	
Netmask	255.255.255.0	
LAN CONFIGURATION		
IP address	off on	
Start	100	
Limit	150	
Lease time	12	
Units	HOURS	
< BACK		SKIP

TECHNICAL INFORMATION

Radio specifications		
RF technologies	WiFi, BLE	
Max RF power	23 dBm@WiFi, 10 dBm@BLE	
Bundled accessories specifications*		
Power adapter	Input: 0.6 A@100-240 VAC, Output: 12 VDC, 1.5 A, 4-pin plug	
WiFi antenna	2400~2483.5 MHz/5150~5905 MHz, 50 Ω, VSWR<2, gain** 5 dBi, omnidirectional, RP-SMA male connector	
BLE antenna	2400~2483.5 MHz, 50 Ω, VSWR<2, gain** 2 dBi, omnidirectional, RP-SMA male connector	
*Order code dependent.		

**Higher gain antenna can be connected to compensate for cable attenuation when a cable is used. The user is responsible for the compliance with the legal regulations.



WHAT'S IN THE BOX?

STANDARD PACKAGE CONTAINS*

- Router RUTX10
- 18 W PSU
- 2 x WiFi antennas (swivel, RP-SMA male)
- 1 x Bluetooth antenna (magnetic mount, RP-SMA male, 1.5 m cable)
- Ethernet cable (1.5 m)
- QSG (Quick Start Guide)
- RMS Flyer
- Packaging box





* For all standard order codes standard package contents are the same, execpt for PSU.



STANDARD ORDER CODES

PRODUCT CODE	HS CODE	HTS CODE	PACKAGE CONTAINS
RUTX1000000	851762	8517.62.00	Standard package with Euro PSU
RUTX10000200	851762	8517.62.00	Standard package with US PSU

For more information on all available packaging options - please contact us directly.



MOUNTING OPTIONS

DIN RAIL KIT

Parameter	Value
Mounting standard	35mm DIN Rail
Material	Low carbon steel
Weight	57g
Screws included	Philips Pan Head screw #6-32×3/16, 2pcs
Dimensions	82 mm x 46 mm x 20 mm
RoHS Compliant	V

DIN RAIL KIT

- DIN Rail adapter
- Philips Pan Head screw #6-32×3/16, 2pcs for RUT2xx/RUT9xx



ORDER CODE	HS CODE	HTS CODE
PR5MEC00	73269098	7326.90.98

For more information on all available packaging options - please contact us directly.

COMPACT DIN RAIL KIT

Parameter	Value
Mounting standard	35mm DIN Rail
Material	ABS + PC plastic
Weight	6.5 g
Screws included	Philips Pan Head screw #6-32×3/16, 2pcs
Dimensions	70 mm x 25 mm x 14,5 mm
RoHS Compliant	V



DIN RAIL KIT

- Compact plastic DIN Rail adapter (70x25x14,5mm)
- Philips Pan Head screw #6-32×3/16, 2pcs

ORDER CODE	HS CODE	HTS CODE
PR5MEC11	73269098	7326.90.98

For more information on all available packaging options - please contact us directly.

SURFACE MOUNTING KIT

Parameter	Value
Mounting standard	Flat surface mount
Material	ABS + PC plastic
Weight	2x5 g
Screws included	Philips Pan Head screw #6-32×3/16, 2pcs
Dimensions	25 mm x 48 mm x 7.5 mm
RoHS Compliant	V



DIN RAIL KIT

- Surface mounting kit
- Philips Pan Head screw #6-32×3/16, 2pcs

ORDER CODE	HS CODE	HTS CODE
PR5MEC12	73269098	7326.90.98

For more information on all available packaging options - please contact us directly.



RUTX10 SPATIAL MEASUREMENTS & WEIGHT

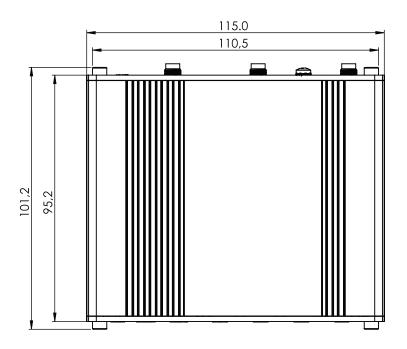
MAIN MEASUREMENTS

W x H x D dimensions for RUTX10:			
Device housing*:	115 x 32.2 x 95.2		
Box:	173 x 71 x 148		

*Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.

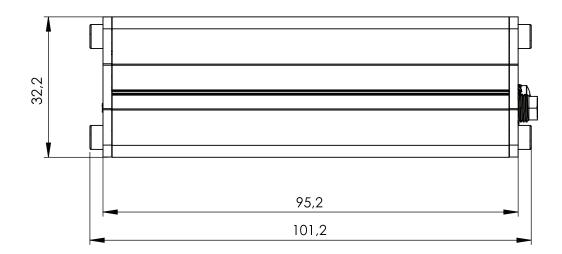
TOP VIEW

The figure below depicts the measurements of RUTX10 and its components as seen from the top:



RIGHT VIEW

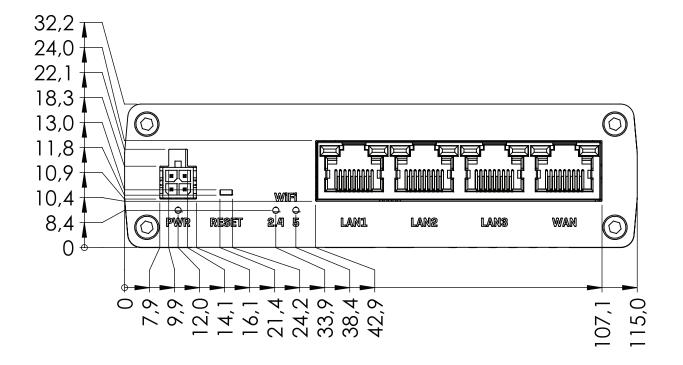
The figure below depicts the measurements of RUTX10 and its components as seen from the right side:





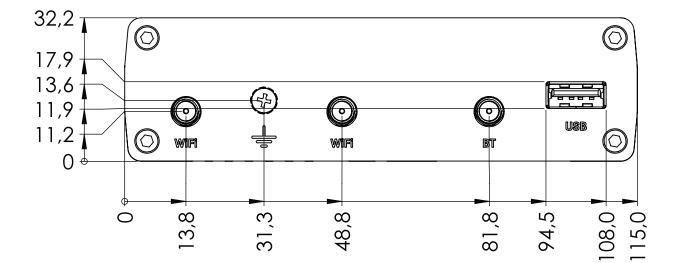
FRONT VIEW

The figure below depicts the measurements of RUTX10 and its components as seen from the front panel side:



REAR VIEW

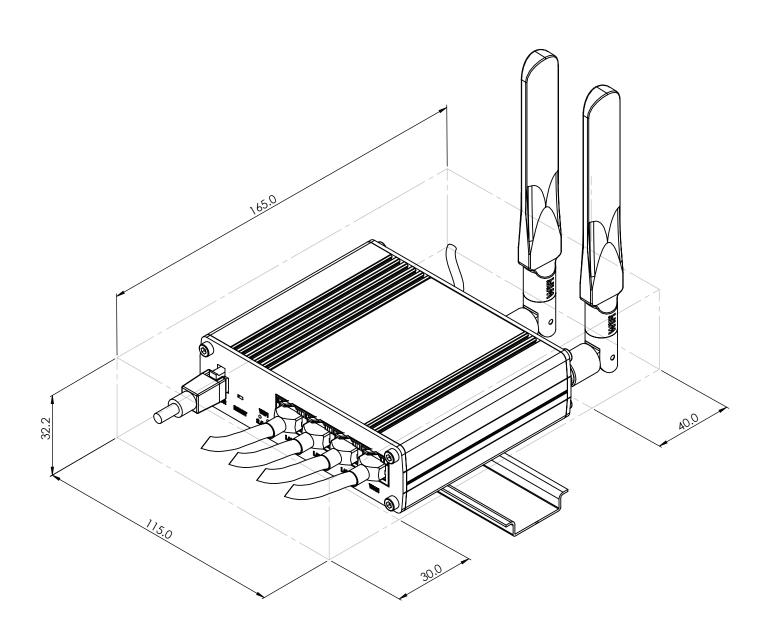
The figure below depicts the measurements of RUTX10 and its components as seen from the back panel side:





MOUNTING SPACE REQUIREMENTS

The figure below depicts an approximation of the device's dimensions when cables and antennas are attached:





DIN RAIL

The scheme below depicts protrusion measurements of an attached DIN Rail:

