ComX Computers
Product Specification Sheet

TTK-RUTX08

Teltonika RUTX08 Industrial Ethernet Router with Quad-Core CPU

Product Overview

Teltonika RUTX08 Industrial Ethernet Router with Quad-Core CPU, 4x GbE ports, 256MB RAM, 1x GbE WAN, 3x GbE LAN, 717MHz Quad-Core arm Cortex, 9-50 V DC Input, VPN, No Wi-Fi/LTE







Specifications

Overview:

This robust industrial router is equipped with four Gigabit Ethernet ports, a 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 where no cellular or WiFi connectivity is required.

Features:

RUTX08

Durable and powerful Ethernet-to-Ethernet router that runs on RutOS - an advanced OpenWrt based operating system. Four Gigabit Ethernet ports, a rugged aluminum housing and industrial networking protocol support makes RUTX08 a perfect choice for professional applications. on wiki page

- Gigabit Ethernet with speeds up to 1000 Mbps
- Teltonika Remote Management System compatible
- Quad core ARM Cortex A7 CPU, 717 MHz
- Easy to use, secure and feature rich OpenWrt based Operating System

- Multiple secure VPN services
- Wide range of power supply voltages for simpler integration

Specifications:

ETHERNET	
WAN	1 x WAN port (can be configured to LAN) 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
LAN	3 x LAN ports, 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
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, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, MQTT, Wake On Lan (WOL)
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	Traffic priority queuing by source/destination, service, protocol or port
DDNS	Supported >25 service providers, others can be configured manually
Network backup	VRRP
Hotspot	Internal/external Radius server, captive portal, built in customizable landing page
SSHFS (optional)	Possibility to mount remote file system via SSH protocol (not available in standard FW)
SECURITY	
Authetication	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-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks)
VLAN	Port based 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, AES-256-CBC
IPsec	IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256)
GRE	GRE tunnel
PPTP, L2TP	Client/Server services can run simultaneously
Stunnel (planed)	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
MODBUS	
Modbus TCP slave	ID range 1-255
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 (Big endian, Big endian with byte-swapped, Little endian, Little endian with byte-swapped)
MONITORING & MANAGEMENT	
WEB UI	HTTP, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log
FOTA	Firmware update from server, automatic notification
SSH	SSH (v1, v2)
SNMP	SNMP (v1, v2, v3), SNMP trap
MQTT	MQTT Broker, MQTT publisher
JSON-RPC	Management API over HTTP/HTTPS
RMS	Teltonika Remote Management System (RMS)
TR-069 (planed)	OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem
SYSTEM CHARACTERISTICS	
CPU	Quad-core ARM Cortex A7, 717 MHz
RAM	256 MB, DDR3
FLASH memory	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
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 (planed)
USB	
Data rate	USB 2.0
Applications	Samba share (planed), custom scripts (planed)
External devices	Possibility to connect external HDD, flash drive, additional modem, printer
Storage formats	FAT, FAT32, NTFS
INPUT/OUTPUT	
Input	1 x Digital Input
Output	1 x Digital Output
Events	SMS, Email, RMS

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 IEEE 802.3af and 802.3at standards
Power consumption	11 W Max
PHYSICAL INTERFACES (PORTS, LEDS, BUTTONS)	
Ethernet	4 x RJ45 ports, 10/100/1000 Mbps
I/Os	1 Digital Input, 1 Digital Output on 4 pin power connector
Status LEDs	8 x LAN status LEDs, 1 x Power LED
Power	4 pin DC connector
USB	USB A port for external devices
Reset	Factory reset button
PHYSICAL SPECIFICATION	
Casing material	Full aluminium housing
Dimensions	115 mm x 95 mm x 32 mm (H x W x D)
Weight	357 g
Mounting options	DIN rail (can be mounted on two sides), flat surface placement
OPERATING ENVIRONMENT	
Operating temperature	-40 C to 75 C
Operating humidity	10 % to 90 % non-condensing
Ingress Protection Rating	IP30
REGULATORY & TYPE APPROVALS	
Regulatory & Type Approvals	CE, RoHS, REACH
EMI IMMUNITY	
Standards	EN 55032:2015, EN 55035:2017
ESD	EN 61000-4-2:2009
RS	EN 61000-4-3:2006+A1:2008+A2:2010
EFT	EN 61000-4-4:2012
Surge protection	EN 61000-4-5:2014
CS	EN 61000-4-6:2014
DIP	EN 61000-4-11:2004
SAFETY	
Standards	IEC 62368-1:2014 EN 62368-1:2014+A11:2017

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TTK-RUTX08-Teltonika-RUTX08-Industrial-Ethernet-Router-with-Quad-Core-CPU-p-236473.php

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