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Product Specification Sheet

OTD140

Teltonika OTD140 Outdoor 4G Router

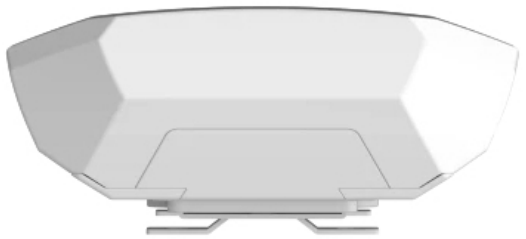
Product Overview

Teltonika OTD140 Outdoor 4G Router, 2 SIM cards, 1x PoE in Port, 1x PoE out, 802.3af/at PoE standards, 2x RJ45 Ports 10/100 Mbps, 2x internal antennas











Specifications

Overview:

OTD140 - OUTDOOR 4G ROUTER

The OTD140 outdoor router features a dedicated and durable IP55 plastic housing and an integrated mounting bracket, making this outdoor 4G router easy to deploy and capable of withstanding outdoor environmental conditions. Beyond that, this outdoor router is equipped with LTE Cat 4 connectivity, compatibility with RMS for remote management capabilities, and two PoE-in/out Ethernet ports.

Specifications:

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Specifications	
Product Code	OTD140
MOBILE	
Mobile module	4G (LTE) - LTE Cat 4 150 Mbps DL, 50 Mbps UL, 3G - 21 Mbps DL, 5.76 Mbps UL, 2G - 236.8 kbps DL, 236.8 kbps UL
SIM switch	2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail, SIM idle protection
Status	Signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID
SMS	SMS status, SMS configuration, send/read SMS via HTTP POST/GET, EMAIL to SMS, SMS to EMAIL, SMS to HTTP, SMS to SMS, scheduled SMS, SMS autoreply, SMPP
USSD	Supports sending and reading Unstructured Supplementary Service Data messages
Black/White list	Operator black/white list
Band management	Band lock, Used band status display
APN	Auto APN
Bridge	Direct connection (bridge) between mobile ISP and device on LAN
Passthrough	Router assigns its mobile WAN IP address to another device on LAN
ETHERNET	
LAN	2 x ETH ports (can be configured as WAN), 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
POE IN	
PoE ports	1 x PoE In
PoE standards	802.3af/at
POE OUT	
PoE ports	1 x PoE Out
PoE standards	802.3af and 802.3at Alternative B
PoE Max Power per Port (at PSE)	24 W Max (power supply unit dependent)
NETWORK	

Routing	Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP), Policy based routing
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, 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 forward, traffic rules, custom rules
Firewall status page	View all your Firewall statistics, rules, and rule counters
Ports management	View device ports, enable and disable each of them, turn auto-configuration on or off, change their transmission speed, and so on
Network topology	Visual representation of your network, showing which devices are connected to which other devices
DHCP	Static and dynamic IP allocation, DHCP Relay
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 options, each of which can be used as an automatic Failover
Hotspot	Captive portal (Hotspot), internal/external Radius server, SMS authorization, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group limitations, user management, 9 default customizable themes and option to upload and download customised hotspot themes
SSHFS	Possibility to mount remote file system via SSH protocol
SECURITY	
Authentication	Pre-shared key, digital certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block
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 and tag-based VLAN separation
Mobile quota control	Mobile data limit, customizable period, start time, warning limit, phone number
WEB filter	Blacklist for blocking out unwanted websites, Whitelist for specifying allowed sites only
Access control	Flexible access control of SSH, Web interface, CLI and Telnet
VPN	
OpenVPN	Multiple clients and a server can run simultaneously, 27 encryption methods
OpenVPN Encryption	DES-CBC 64, RC2-CBC 128, DES-EDE-CBC 128, DES-EDE3-CBC 192, DESX-CBC 192
	BF-CBC 128, RC2-40-CBC 40, CAST5-CBC 128, RC2-64-CBC 64, AES-128-CBC 128, AES-128-CFB 128, AES-128-CFB1 128, AES-128-CFB8 128, AES-128-OFB 128, AES-128-GCM 128, AES-192-CFB 192, AES-192-CFB1 192, AES-192-CFB8 192, AES-192-OFB 192, AES-192-CBC 192, AES-192-GCM 192, AES-256-GCM 256, AES-256-CFB 256, AES-256-CFB1 256, AES-256-CFB8 256, AES-256-OFB 256, AES-256-CBC 256

IPsec	IKEv1, IKEv2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, AES256GCM8, AES128GCM12, AES192GCM12, AES256GCM12, AES128GCM16, AES192GCM16, AES256GCM16)
GRE	GRE tunnel, GRE tunnel over IPsec support
PPTP, L2TP	Client/Server instances can run simultaneously, L2TPv3, L2TP over IPsec support
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
SSTP	SSTP client instance support
ZeroTier	ZeroTier VPN client support
WireGuard	WireGuard VPN client and server support
Tinc	Tinc offers encryption, authentication and compression in it's tunnels. Client and server support.
OPC UA	
Supported modes	Client, Server
Supported connection types	TCP
MODBUS	
Supported modes	Server, Client
Supported connection types	TCP
Custom registers	MODBUS TCP custom register block requests, which read/write to a file inside the router, and can be used to extend MODBUS TCP Slave functionality
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
DATA TO SERVER	
Protocol	HTTP(S), MQTT, Azure MQTT
Data to server	Extract parameters from multiple sources and different protocols, and send them all to a single server
MODBUS MQTT GATEWAY	
Modbus MQTT Gateway	Allows sending commands and receiving data from MODBUS Master through MQTT broker
DNP3	
Supported modes	Station, Outstation
Supported connection	TCP
DLMS	
DLMS Support	DLMS - standard protocol for utility meter data exchange
MONITORING & MANAGEMENT	
WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log
FOTA	Firmware update from server, automatic notification
SSH	SSH (v1, v2)

SMS	SMS status, SMS configuration, send/read SMS via HTTP POST/GET
Call	Reboot, Status, Mobile data on/off, Output on/off, answer/hang-up with a timer
TR-069	OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem
MQTT	MQTT Broker, MQTT publisher
SNMP	SNMP (v1, v2, v3), SNMP Trap
JSON-RPC	Management API over HTTP/HTTPS
RMS	Teltonika Remote Management System (RMS)
IOT PLATFORMS	
Cloud of Things	Allows monitoring of: Device data, Mobile data, Network info, Availability
ThingWorx	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type
Cumulocity	Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength
Azure IoT Hub	Can send device IP, Number of bytes send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection state, Network link state, IMEI, ICCID, Model, Manufacturer, Serial, Revision, IMSI, SIM State, PIN state, GSM signal, WCDMA RSCP, WCDMA EC/IO, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, Operator, Operator number, Connection type
SYSTEM CHARACTERISTICS	
CPU	Mediatek, 580 MHz, MIPS 24KEc
RAM	128 MB
FLASH storage	16 MB
FIRMWARE / CONFIGURATION	
WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup
FOTA	Update FW
RMS	Update FW/configuration for multiple devices at once
Keep settings	Update FW without losing current configuration
FIRMWARE CUSTOMISATION	
Operating system	RutOS (OpenWrt based Linux OS)
Supported languages	Busybox shell, Lua, C, C++, and Python, Java in Package manager
Development tools	SDK package with build environment provided
GPL customization	You can create your own custom, branded firmware and web page application by changing colours, logos, and other elements in our firmware to fit your or your clients' needs.
INPUT / OUTPUT	
Events	Email, RMS, SMS
POWER	
Connector	RJ45 Socket
Input voltage range	42.5-57.0 VDC, reverse polarity protection, voltage surge/transient protection
Input voltage range for PoE	42.5-57.0 VDC, reverse polarity protection, voltage surge/transient protection

Power consumption	Idle: < 2.5 W / Max: < 6 W / PoE Max < 21 W
PHYSICAL INTERFACES	
Ethernet	2 x RJ45 ports, 10/100 Mbps
Status LEDs	3 x Mobile connection type, 3 x Mobile connection strength, 4 x ETH status LEDs
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V
Power	RJ45, PoE In, 42.5 - 57.0 VDC
Antennas	2 x Internal antennas
Antennas specifications	1 x 698 - 960 / 1710 - 2690MHz, 50 ohm, VSWR
	1 x 698 - 960 / 1710 - 2690MHz, 50 ohm, VSWR
Reset	Reboot/User default reset/Factory reset button
PHYSICAL SPECIFICATION	
Casing material	Plastic (PC+ASA)
Dimensions (W x H x D)	110 x 49.30 x 235 mm
Weight	855 g
Mounting options	Mounting Bracket (for vertical flat surface or pole mounting)
OPERATING ENVIRONMENT	
Operating temperature	-40 degreesC to 75 degreesC
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP55
REGULATORY & TYPE APPROVALS	
Regulatory	CE, UKCA, EAC, UCRF, RCM

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/OTD140-Teltonika-OTD140-Outdoor-4G-Router-p-307095.php

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