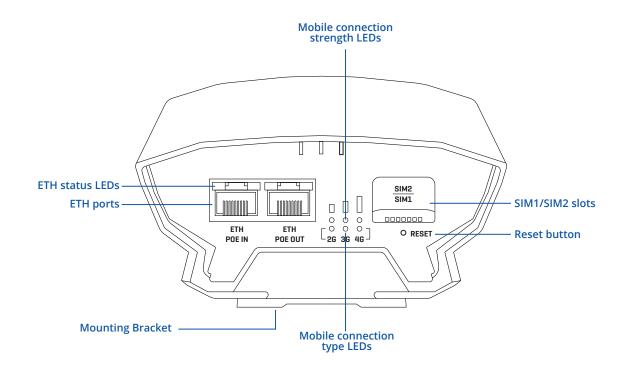






HARDWARE

FRONT VIEW



RJ45 LED MEANING





FEATURES

MOBILE

WODILL	
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
	View device parts, apple and disable each of them turn auto configuration on as off, change their transmission speed

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 protoco



SECURITY

SECORITY	
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-OFE 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 (planned)
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	



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
MODBUS	MODBUS TCP status/control
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 loT 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

CFO	Weuldter, 500 Wilz, Wir5 24NEC
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 CUSTOMIZATIO	DN
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 now create your own custom firmware and web page application, with some examples to make the creation process easier; and brand our firmware by changing colours, logos, and so on to fit your or your clients' needs
INPUT / OUTPUT	
Events	Email, RMS, SMS
POWER	
Connector	RJ45 Socket
Input voltage range for PoE	42.5–57.0 VDC, reverse polarity protection, voltage surge/transient protection
Power consumption	ldle: < 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 Ω, VSWR <3.5, gain <3 dBi, omnidirectional 1 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR <3, gain <4.5 dBi, omnidirectional

Reset Reboot/User default reset/Factory reset button



PHYSICAL SPECIFICATION

Casing material Dimensions (W x H x D)	Plastic (PC+ASA) 110 x 49.30 x 235 mm
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 °C to 75 °C
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP55
REGULATORY & TYPE APPRO	DVALS

Regulatory

CE, UKCA, EAC, UCRF, RCM



STANDARD PACKAGE*

- OTD140 Router
- Router Holder
- QSG (Quick Start Guide)
- Packaging Box



* Standard package contents may differ based on standard order codes.

CLASSIFICATION CODES

HS Code: 851762 HTS: 8517.62.00

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

AVAILABLE VERSIONS

HARDWARE VERSION

SUPPORTED FREQUENCIES

OTD140 0***** Australia, Europe, Asia-Pacific 4G (LTE-FDD): B1, B3, B5, B7, B8, B20, B28 4G (LTE-TDD): B38, B40, B41 3G: B1, B5, B8 2G: B3, B8

STANDARD ORDER CODE / PACKAGE CONTAINS

OTD140 000000 / Standard Package

The price and lead-times for region (operator) specific versions may vary. For more information please contact us.

1 - Regional availability - excluding Russia & Belarus 2 - For more detailed information about certified carriers, visit our Wiki page



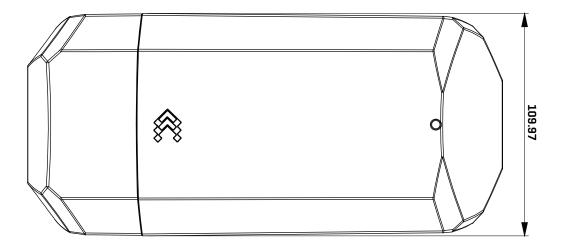
OTD140 SPATIAL MEASUREMENTS

MAIN MEASUREMENTS

W x H x D dimensions for	· OTD140:
Device housing*:	110 x 49.30 x 235 mm
Box:	355 mm x 175 mm x 60 mm
*Housing measurements are pre	sented without antenna connectors and screws; for measurements of other device elements look to the sections below.

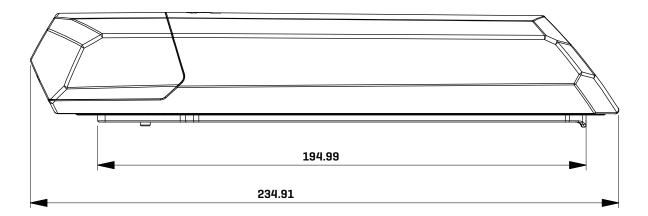
TOP VIEW

The figure below depicts the measurements of OTD140 and its components as seen from the top:



RIGHT VIEW

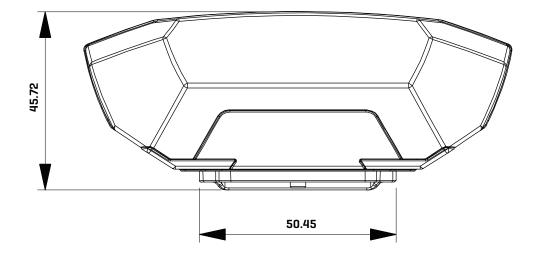
The figure below depicts the measurements of OTD140 and its components as seen from the right side:





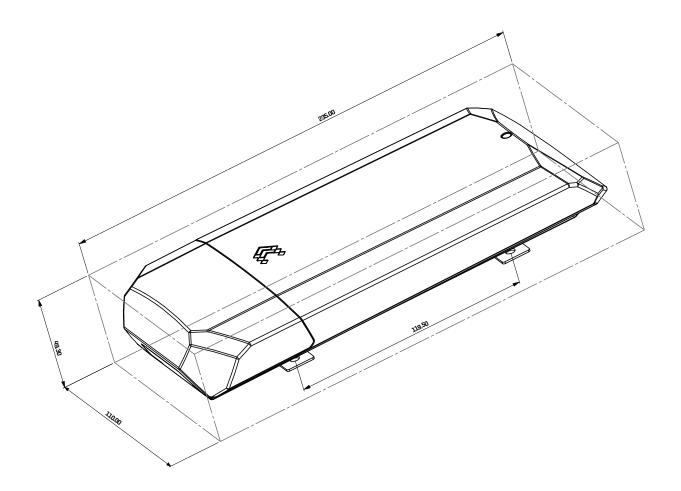
FRONT VIEW

The figure below depicts the measurements of OTD140 and its components as seen from the front panel side:



MOUNTING SPACE REQUIREMENTS

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





MOUNTING SPACE REQUIREMENTS

