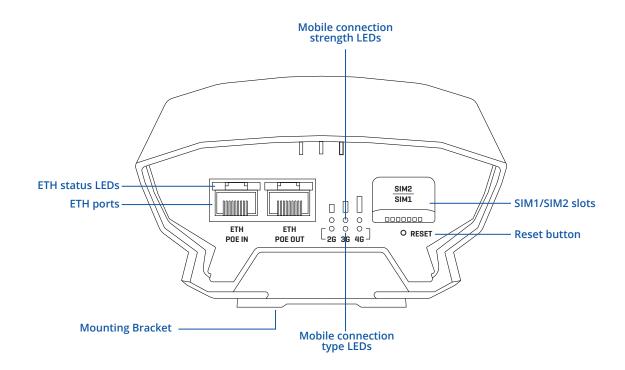






HARDWARE

FRONT VIEW



RJ45 LED MEANING





FEATURES

MOBILE

MODILE		
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	
PoE Max Power per Port (at PSE)	15 W (only available if device is powered by 802.3at PoE In)	
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	

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-OF 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 CHARACTERIS	ITICS	
CPU	Mediatek, 580 MHz, MIPS 24KEc	

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 CUSTOMIZATIO	N
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	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
Bosot	Debast/User default reset/Eastenu reset butten

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 °C to 75 °C	
Operating humidity	10% to 90% non-condensing	
Ingress Protection Rating	IP30	
REGULATORY & TYPE APPROVALS		

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 & WEIGHT

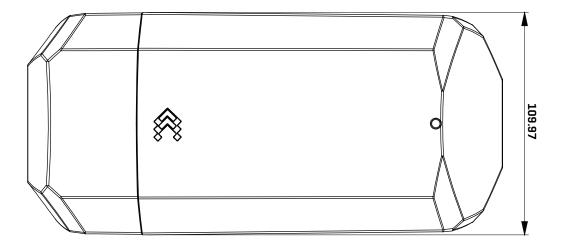
MAIN MEASUREMENTS

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

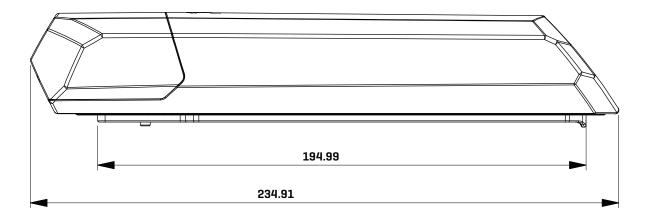
TOP VIEW

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



RIGHT VIEW

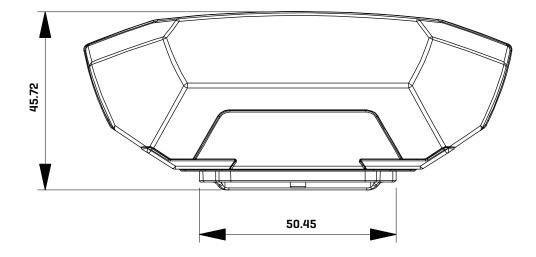
The figure below depicts the measurements of OTD140 and its components as seen from the right side:





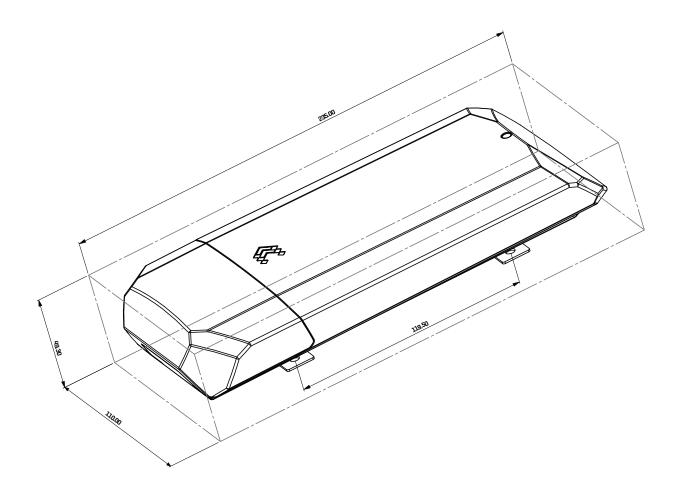
FRONT VIEW

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

