



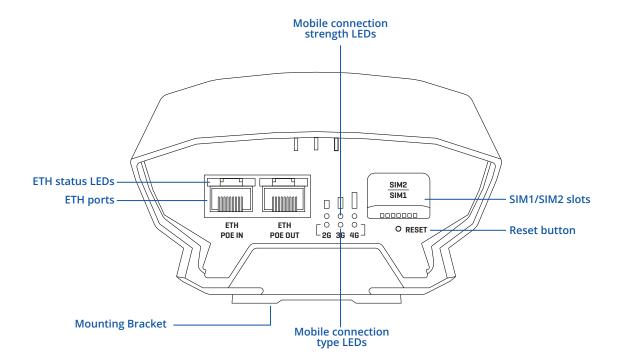
# **OTD140**





# **HARDWARE**

#### **FRONT VIEW**



## **RJ45 LED MEANING**





# **FEATURES**

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SSHFS

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	
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Possibility to mount remote file system via SSH protoco



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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-256-CFB 256, AES-256-CFB 256, AES-256-CFB 256, AES-256-CFB 256, AES-256-CFB 256, AES-256-CBC 256	
IPsec	IKEv1, IKEv2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, AES256GCM8, AES128GCM12, 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		
DLMS Support	DLMS - standard protocol for utility meter data exchange	



#### **MONITORING & MANAGEMENT**

MED UI	MONITORING & MANAGEM	LEIN I
SSI SSI (M, v2)  SMS SAULS, SMS configuration, sendfread SMS via HTTP POSTAGET  Call Rebook State, Mobile data on off, Dusput on rolft, answer/bang-up with a timer  Ro06 OpenACS, Eaps/cwmp, ACSUte, 10em, LbrACS, GenieACS, IreeAACS, LbcWMP, Friendly tech, AVSystem  MQTT MMCTT Brisker, MQTT publisher  SMMP SMMP (M, v2, v3), SMMB Trap  JSON-APC Management API over HTTP-HTTPS  MODBUS MODBUS TCP status/control  Allows monitoring of Device Model status  Allows monitoring of Device Model status  Model Allows monitoring of Device Model, Revision and Serial Number, WAM Type and IP, Mobile Cell ID, ICCID, IMBI, Commercion  Syne, Operator Syne, Syne Strength  Model Allows monitoring of Device Model, Revision and Serial Number, WAM Type and IP, Mobile Cell ID, ICCID, IMBI, Commercion  Syne, Operator Syne, Syne Strength  Model Allows monitoring of Device Model, Revision and Serial Number, WAM Type and IP, Mobile Cell ID, ICCID, IMBI, Commercion  Network ink water, IMBI, ICCID, Model, Amunifacturer, Serial, Revision, IMS, SMS Sont, PIN status (SMS Syne)  MODBUS TCP Status (IMBI, ICCID, Model, Amunifacturer, Serial, Revision, IMS, SMS Sont, PIN status (SMS Syne)  MODBUS TCP Stat	WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log
SMS SMS status, SMS configuration, sendiread SMS via HTTP POSTAGET  Call Rebook, Satus, Mobile data on/off, Chupet on/off, answerhang-up with a dimen  18-09 OpenACS, Sang-Wime, ACS, Suncher, ACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem  MOTT MOTT Broker, MOTT publisher  SMMP SMMP MI, VIZ, SI, SMNP Trap  SSMMP MODBUS SMMP MI, VIZ, SI, SMNP Trap  SSON RPC Management AF lower HTTP HTTPS  MODBUS MODBUS TCP status/control  RNS Tetonika Remote Management System (RMS)  Totonika Remote Management System (RMS)  Tot PEATFORMS  Count of Triings Allows monitoring of Device data, Mubble data, Network into, Availability  ThingWorx Allows monitoring of SwN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type  Cumulocity Allows monitoring of SwN Name Por Myses send reserved. Temperature, PMI count to Availability  ThingWorx Allows monitoring of SwN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type  Cumulocity Swn Type and IP, Mobile Colletto, Citol, Mill, Comection  Type, Operator, Synal Strength  Acure for Hubb Swn Amonitoring of Swn Swn Strength  Acure for Hubb Swn Amonitoring of Swn Swn Strength  Acure for Hubb Swn Amonitoring of Swn Swn Strength  Acure for Hubb Swn Amonitoring of Swn Swn Strength  Acure for Hubb Swn Swn Management Synt Swn	FOTA	Firmware update from server, automatic notification
Call Reboot, Status, Mobile data on/off, Output on/off, answer/hangup with a timer  TR-069 OpenACS, Easycamp, ACSUre, tiern, Ubro-ACS, GeneACS, FreeACS, LibCWMM, Friendly tech, AVsystem  MOTT Pooles, MOTT publisher  SMMP SMMP (V, V, V, V, V, V, V), SMMP Trop  JSDN-8PC Management API over HTTP-HTTPS  MODBUS MODBUS CP status/control  RMS Tebonika Remote Management System (RMS)  Iot PLATEGRAMS  Totolida Remote Management System (RMS)  Iot PLATEGRAMS  Totolida Remote Management System (RMS)  Iot PLATEGRAMS  Totolida (Moss monitoring of Device data, Mobile data, Network info. Availability  Timigworx Allows monitoring of Device data, Mobile data, Network info. Availability  Timigworx Allows monitoring of Device data, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type  Can and device IP, Number of bytes send/resched, Temperature, PIN count to Avair of Thuh comer, Mobile connection state, Network info. Availability  Type Operator, Signal Strength  Azure Iot Hub  Can and device IP, Number of bytes send/resched, Temperature, PIN count to Avair of Thuh comer, Mobile connection state, Network info. Availability  Type Operator, Signal Strength  Azure Iot Hub  Can and device IP, Number of bytes send/resched, Temperature, PIN count to Avair of Thuh comer, Mobile connection state, Network info. Availability  Type Operator, Operator number, Connection Type  SYSTEM CHARACTERISTICS  CPU  Mediater, S80 MHr, MIPS 248fc  CPU  Mediater Worm Mips 248fc  M	SSH	SSH (v1, v2)
MOTT   MOTT Broker, MOTT publisher   MOTT Broker, MOTT publisher   MOTT Broker, MOTT publisher   MOTT publ	SMS	SMS status, SMS configuration, send/read SMS via HTTP POST/GET
MQTT Broker, MQTT publisher  SMMP  SMMP N, V2, V3, SMMP Trap  SMMP NOBUS  MODBUS TCP subarchoritrot  RMS  Tethorika Remote Management System (RMS)  IOTELATEORMS  Cloud of Things Allows monitoring of: Device data, Mobile data, Network info, Availability  ThingWork  Allows monitoring of: Device data, Mobile data, Network info, Availability  ThingWork  Allows monitoring of: Device data, Mobile data, Network info, Availability  ThingWork  Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Network Type  Azure IoT Hub  Can send device IP, Number of Dybes and Preceded (Amanufacturer, Sens), MSM, State PRV state, CSM, Signal, WCDMA RSCP, WCDMA ECID, LTE RSMP, LTE SMR, LTE RSMQ, CELL ID, Operator, Operator, August of Turbus Province Institute, Sens, Idea, International Commence of Management (Amanufacturer, Sens), MSM, State PRV state, CSM, Signal, WCDMA RSCP, WCDMA ECID, LTE RSMP, LTE SMR, LTE RSMQ, CELL ID, Operator, Opera	Call	Reboot, Status, Mobile data on/off, Output on/off, answer/hang-up with a timer
SNMP   SNMP   CN, V2, V3, SNMP Trap	TR-069	OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem
SON RPC   Munagement API over HTTP/HTTPS     MODBUS   MODBUS TEP saturation rotted	MQTT	MQTT Broker, MQTT publisher
MOBBUS MOBBUS TCP status/control RNS Teltonika Remote Management System (RMS)  LOT PLATFORMS  Cloud of Things Allows monitoring of: Device data, Mobile data, Network info, Availability  ThingWorx Allows monitoring of: Device data, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type  Climilocity June Coperator, Signal Strength  Aurie 10T Hub Rower in Strength  Can send device IP, Number of Dyes senderceebed, Temperature, June Unit to Aurie 10T Hub Server, Inic State, Mile, I.C.D., Model, Manifacture, Seria, Bestian, United Thus been with Economic constant, Revenue of Hub Server, Inic State, Mile, I.C.D., Model, Manifacture, Seria, Bestian, INSI, Sink State, PIM state, CSM signal, WCDMA RCP, WCDMA ECID, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, Operator, Operator number, Connection type  SYSTEM CHARACTERISTICS  CPU Mediatek, S80 MHz, MIPS 24KEC  RAM 128 MB  FLASH storage 16 MB  FEIRAWAREZ CONFIGURATION  WEB UI Update FW from file, check FW on server, configuration profiles, configuration backup  FOTA Update FW without losing current configuration  FEIRAWAREZ CONFIGURATION  Operating system Rus Rus Of OpenWire based Linux OS)  Supported languages Busybox shell, Lua, C, C++, and Python, Java in Package manager  Development tools SDK package with bailed environment provided  GPL customization You can now create your own custom firmware and web page application, with some examples to make the creation process-  cases and brand our firmware by changing colours, logos, and so on to fit your or your clients needs  INPUT COURTE  Connector RH45 Socket  Input volage range for Pot 42.5-573 NDC, reverse polarity protection, voltage surge/transient protection  Power Consumption 2 x Nobile Connection type, 3 x Mobile connection strength, 4 x ETH status LEDs  3 x Mobile connection type, 3 x Mobile connection strength, 4 x ETH status LEDs  3 x Mobile connection type, 3 x Mobile connection strength, 4 x ETH status LEDs  4 x Internal Internal  5 x Harman Specifications 1 x 898 - 960 / 1710 - 2990MHz, 5 0.0, VSWR < 2.5,	SNMP	SNMP (v1, v2, v3), SNMP Trap
RMS Teltonika Remote Management System (RMS)  Iot PLATFORMS  Cloud of Things Allows monitoring of: Device data, Mobile data, Network info, Availability  ThingWorc Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, 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, Wanner of bytes send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection state, Network link state, IMEI, ICCID, Model, Manufacturer, Serial, Revision, IMS, SM State, PIN state, GSM signal, WCDMA RSCP, WCDMA EC/ID, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, Operator, Operator number, Connection type  SYSTEM CHARACTERISTICS  CPU Mediatek, SSD MHz, MIPS 24KEC  RMM 128 MB  FLASH storage 16 MB  FLASH storage 16 MB  FLASH storage 10 Lydate 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 bosing current configuration  FIRMWARE CUSTOMIZATION  Operating system RUGS (OperaWrt based Linux OS)  Supported languages Busybors shell, Lua, C, C++, and Python, Java in Package manager  Development tools SDK package with build environment provided  GPL customization easier; and brand our 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  NPUT / OUTPUT  Events Email, RMS, SMS  POWER  Connector RH45 Socket  Connector RH55 Socket  Connector SP45 Socket  Connecto	JSON-RPC	Management API over HTTP/HTTPS
Cloud of Things	MODBUS	MODBUS TCP status/control
Cloud of Things Allows monitoring of: Device data, Mobile data, Network info, Availability ThingWore 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, IME, Connection Type, Operator, Signal Strength Azure IoT Hub Server, Michael Strength Azure IoT Hub Server, Mobile Connection State, New Storn, Maj, SIM State, PIN State, CSM stignal, WCDMA RSCP, WCDMA ECAO, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, Operator, Operator number, Connection type  SYSTEM CHARACTERISTICS  CPU Mediatek, S80 MHz, MIPS 24KEc  RAM 128 MB FLASH storage 16 MB FLASH storage 16 MB FLASH storage 16 MB FLASH Storage 17 Mediatek, S80 MHz, MIPS 24KEc  RAM Update FW from file, check FW on server, configuration profiles, configuration backup  FOTA Update FW RMS Update FW without losing current configuration  FIRMWARE CUSTOMIZATION  Operating system RutOS (OpenWrt based Linux OS)  Supported languages Busybox shell, Ltua, 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 42-5-70 VDC, reverse polarity protection, voltage surge/transient protection  Idle: <2.5 W Max < 6 W / PoE Max < 2 W  PHYSICAL INTERFACES  Ethernet 2 × RJ45 ports, 10/100 Mbps  Status LEDS 3 × Mobile connection type, 3 x Mobile connection strength, 4 x ETH status LEDs  SIM 2 × SIM slots (Mini SIM - 2FF), 1.8 V/3 V  Power RJ45, PoE II, 122-5-70 VDC  Antennas Specifications 1 × 698 -960 / 1710 - 2890MHz, 50 Q, VSWR <	RMS	Teltonika Remote Management System (RMS)
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 Cansend 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, CSM signal, WCDMA RSCP, WCDMA ECO, LTE RSRP, LTE SINK, LTE RSRQ, CELL ID, Operator, Operator, Operator number, Connection type  SYSTEM CHARACTERISTICS  CPU Mediatek, S80 MHz, MPS 24KEC  RMM 128 MB  FLASH storage 16 MB  FIRMWARE / CONFIGURATION  WEB UI Update PW from file, check PW on server, configuration profiles, configuration backup  FOTA Update FW  RMS Update FW without losing current configuration  FIRMWARE CUSTOMIZATION  Operating system RutOS (OpenWirt based Linux OS)  Supported languages Busybox shell, Lua, C, C++, and Python, Java in Package manager  Development tools SOK 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 Pot 42,5-57.0 VDC, reverse polanity protection, voltage surge/transient protection  Power consumption Idle: < 2.5 W / Max: < 6 W / PoE Max < 2 1 W  PHYSICAL INTERFACES  SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 W3 V  POWOR RJ45, PoEl In, 42.5 - 57.0 VDC  Artennas 3 pecifications 1 x 698 - 960 / 1710 - 2690MHz, 50 Q, VSWR < 3.5, gain < 3.6 lb, omnidirectional  1 x 698 - 960 / 1710 - 2690MHz, 50 Q, VSWR < 3.5, gain < 3.6 lb, omnidirectional	IOT PLATFORMS	
Allows monktoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IME, Connection Type, Operator, Signal Strength  Azure loT Hub San send device IP, Number of types send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection state, Network Ink state, IMEJ, ICCID, Model, Manufacturer, Serial, Revision, IMSJ, SIM State, PIN state, CSM signal, WCDMA RSCP, WCDMA ECAID, ITE RSRP, LTE SINR, LTE RSRQ, CELL ID, Operator, Operator number, Connection type  SYSTEM CHARACTERISTICS  CPU Mediatek, 590 MHz, MIPS 24KEC  RAM 128 MB  FIRMWARE / CONFIGURATION  WEB UI Update PW from file, check PW on server, configuration profiles, configuration backup  FOTA Update PW  MMS Update PW configuration for multiple devices at once  Keep settings Update PW without losing current configuration  FIRMWARE CUSTOMIZATION  Operating system RutOS (OpenWrt based Linux OS)  Supported languages Busybox shell, Lua, C, C++, and Python, Javo in Package manager  Development tools SDK package with build environment provided  GPL customization Voic and over the 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 RJAS Socket  Input voltage range for PoE 42.5-57.0 VDC, reverse polarity protection, voltage surgeArransient protection  Idle: <2.5 W / Max: <6 W / PoE Max < 21 W  PHYSICAL INTERFACES  SIM 2 x RJAS 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 W3 V  Power RJAS, Poli In, 42.5 ~ 57.0 VDC  Antennas 3 pecifications 1, x 688 ~ 960 / 1710 ~ 2690MHz, 50 Q, VSWR < 3, gain <4.5 dBl, omnidirectional	Cloud of Things	Allows monitoring of: Device data, Mobile data, Network info, Availability
Type, Operator, Signal Strength  Azure IoT Hub Server, Inkastae, IoSM signal, WcDMA RSCP, WcDMA	ThingWorx	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type
Azure IoT Hub         Network Link State, IMBI, 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 PW from file, check PW on server, configuration profiles, configuration backup           FOTA         Update PW         Without losing current configuration           MMS         Update PW without losing current configuration           FIRMWARE CUSTOMIZATION           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         20 Vo can now create your own custom firmware and web page application, with some examples to make the creation processes assist; and brand our firmware by changing colours, logos, and so on to fit your or your clients' needs           INPUT / OUTPUT         Email, RMS, SMS           POWER         Email, RMS, SMS           POWER         Email, RMS, SMS           POWER         Email, RMS, SMS           POWER <t< td=""><td>Cumulocity</td><td></td></t<>	Cumulocity	
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 CUSTOMIZATION 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 < 2 t 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, 4.2.5 – 57.0 VDC Antennas 2 x Internal antennas  Antennas 2 x Internal antennas  1 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR < 3.5, gain < 4.5 dBi, omnidirectional 1 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR < 3.5, gain < 4.5 dBi, omnidirectional	Azure IoT Hub	Network link state, IMEI, ICCID, Model, Manufacturer, Serial, Revision, IMSI, SIM State, PIN state, GSM signal, WCDMA RSCP,
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 CUSTOMIZATION  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 Vou an 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  Input voltage range for PoE 42.5-57.0 VDC, reverse polarity protection, voltage surge/transient protection  Power consumption Idde: < 2.5 W / Max: < 6 W / PoE Max < 2 I 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 - 5.7 0 VDC  Antennas 2 x Internal antennas  1 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR < 3.5, gain < 4.5 dBi, omnidirectional 1 x 698 - 960 / 17110 - 2690MHz, 50 Ω, VSWR < 3.5, gain < 4.5 dBi, omnidirectional	SYSTEM CHARACTERISTICS	
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 CUSTOMIZATION  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  Etherne 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 Q, VSWR < 3.5, gain < 4.5 dBi, omnidirectional  1 x 698 - 960 / 1710 - 2690MHz, 50 Q, VSWR < 3.6, gain < 4.5 dBi, omnidirectional	CPU	Mediatek, 580 MHz, MIPS 24KEc
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 CUSTOMIZATION         FIRMWARE CUSTOMIZATION           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	RAM	128 MB
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 CUSTOMIZATION  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  Input voltage range for PoE 42.5-57.0 VDC, reverse polarity protection, voltage surge/transient protection  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 11 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR < 3.5, gain < 4.5 dBi, omnidirectional 1 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR < 3.5, gain < 4.5 dBi, omnidirectional	FLASH storage	16 MB
FOTA Update FW 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++, 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  M 2 x SIM slots (Mini SIM – 2FF), 1.8 W/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 1 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR < 3, gain < 4.5 dBi, omnidirectional	FIRMWARE / CONFIGURATI	ON
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++, 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         Email, RMS, SMS           POWER         Connector           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	WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup
Keep settings         Update FW without losing current configuration           FIRMWARE CUSTOMIZATION           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	FOTA	Update FW
FIRMWARE CUSTOMIZATION  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  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	RMS	Update FW/configuration for multiple devices at once
Operating systemRutOS (OpenWrt based Linux OS)Supported languagesBusybox shell, Lua, C, C++, and Python, Java in Package managerDevelopment toolsSDK package with build environment providedGPL customizationYou 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' needsINPUT / OUTPUTEventsEmail, RMS, SMSPOWERConnectorRJ45 SocketInput voltage range for PoE42.5-57.0 VDC, reverse polarity protection, voltage surge/transient protectionPower consumptionIdle: < 2.5 W / Max: < 6 W / PoE Max < 21 W	Keep settings	Update FW without losing current configuration
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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  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 < 3.5, gain < 4.5 dBi, omnidirectional	Operating system	RutOS (OpenWrt based Linux OS)
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  Antennas specifications 1 x 698 - 960 / 1710 - 2690MHz, 50 Q, VSWR < 3.5, gain < 3 dBi, omnidirectional 1 x 698 - 960 / 1710 - 2690MHz, 50 Q, VSWR < 3, gain < 4.5 dBi, omnidirectional	Supported languages	Busybox shell, Lua, C, C++, and Python, Java in Package manager
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  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 < 3.5, gain < 4.5 dBi, omnidirectional	Development tools	SDK package with build environment provided
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  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	GPL customization	
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PHYSICAL INTERFACESEthernet2 x RJ45 ports, 10/100 MbpsStatus LEDs3 x Mobile connection type, 3 x Mobile connection strength, 4 x ETH status LEDsSIM2 x SIM slots (Mini SIM – 2FF), 1.8 V/3 VPowerRJ45, PoE In, 42.5 – 57.0 VDCAntennas2 x Internal antennasAntennas specifications1 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	Input voltage range for PoE	42.5–57.0 VDC, reverse polarity protection, voltage surge/transient protection
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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  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	PHYSICAL INTERFACES	
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	Ethernet	2 x RJ45 ports, 10/100 Mbps
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	Status LEDs	3 x Mobile connection type, 3 x Mobile connection strength, 4 x ETH status LEDs
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	SIM	2 x SIM slots (Mini SIM – 2FF), 1.8 V/3 V
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	Power	RJ45, PoE In, 42.5 – 57.0 VDC
1 x 698 - 960 / 1710 - 2690MHz, 50 Ω, VSWR <3, gain <4.5 dBi, omnidirectional	Antennas	2 x Internal antennas
Reset Reboot/User default reset/Factory reset button	Antennas specifications	
	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 ENVIRONME	NT	
Operating temperature	-40 °C to 75 °C	
Operating humidity	10% to 90% non-condensing	
Ingress Protection Rating	IP55	
DECLII ATODY 8, TYPE ADE	PROVALS	

## REGULATORY & TYPE APPROVALS

Regulatory CE, UKCA, EAC, UCRF, RCM



# **STANDARD PACKAGE\***

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







**ROUTER HOLDER** 

**QSG (QUICK START GUIDE)** 

# **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**

#### STANDARD ORDER CODE / PACKAGE CONTAINS

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

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

<sup>\*</sup> Standard package contents may differ based on standard order codes.



## **OTD140 SPATIAL MEASUREMENTS**

#### MAIN MEASUREMENTS

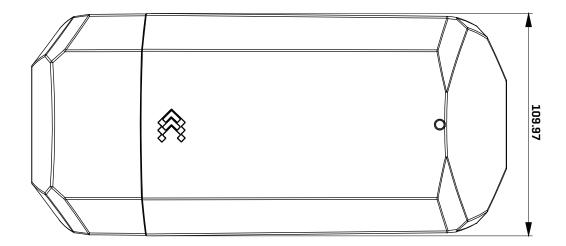
W x H x D dimensions for OTD140:

Device housing\*: 110 x 49.30 x 235 mm Box: 355 mm x 175 mm x 60 mm

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

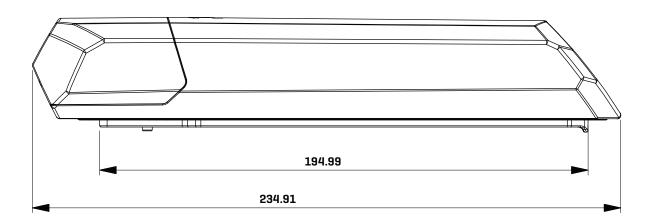
#### **TOP VIEW**

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



#### **RIGHT VIEW**

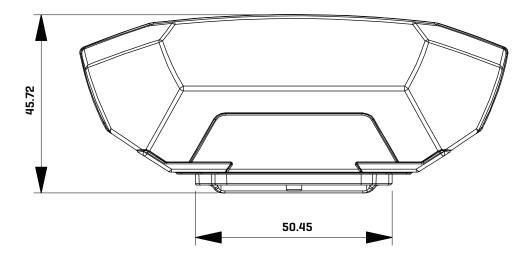
The figure below depicts the measurements of OTD140 and its components as seen from the right side:  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}$ 





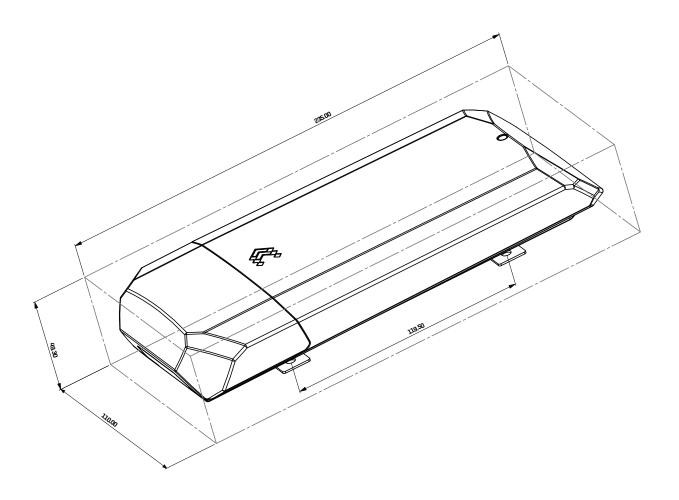
#### **FRONT VIEW**

The figure below depicts the measurements of OTD140 and its components as seen from the front panel side:  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left$ 



## MOUNTING SPACE REQUIREMENTS

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





## MOUNTING SPACE REQUIREMENTS

