

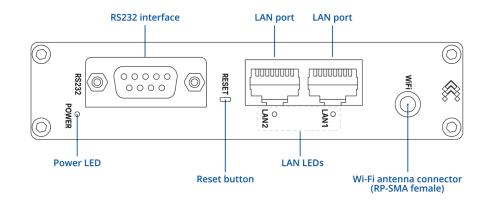


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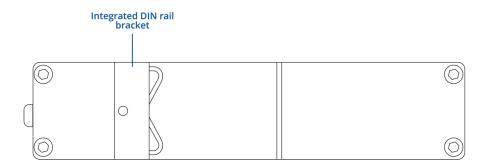


# HARDWARE

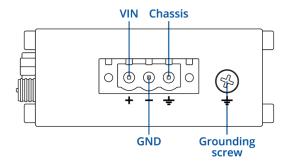
### **FRONT VIEW**



#### **BACK VIEW**



#### **POWER SOCKET PINOUT**



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# **FEATURES**

Wireless	
Wireless mode	IEEE 802.11b/g/n (Wi-Fi 4), Access Point (AP), Client (STA), Mesh (802.11s), Multi AP
WiFi security	WPA-PSK, WPA2-PSK, WPA3-SAE, WPA-EAP, OWE, WPA2-EAP, WPA3-EAP
SSID/ESSID	ESSID stealth mode
Wi-Fi users	Up to 50 simultaneous connections
Wireless Connectivity Features	Wireless mesh (802.11s), fast roaming (802.11r), Relayd, BSS transition management (802.11v), radio resource measurement (802.11k)
Wireless MAC filter	Allowlist, blocklist
Wireless QR code generator	Once scanned, a user will automatically enter your network without needing to input login information
TravelMate	Forward Wi-Fi hotspot landing page to a subsequent connected device
Ethernet	
LAN	2 x LAN ports, 10/100 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), Policy based routing
Network protocols	TCP, UDP, IPv4, IPv6, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, 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, DHCP server configuration, status, static leases: MAC with wildcards
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
DNS over HTTPS	DNS over HTTPS proxy enables secure DNS resolution by routing DNS queries over HTTPS
Network backup	Wi-Fi WAN, VRRP, Wired options, each of which can be used as an automatic Failover
Load balancing	Balance Internet traffic over multiple WAN connections
Hotspot 2.0	Hotspot 2.0 is a Wi-Fi standard that enables seamless, secure, and automatic connection to trusted wireless networks
SSHFS	Possibility to mount remote file system via SSH protocol
VRF support	Initial virtual routing and forwarding (VRF) support
Traffic Management	Real-time monitoring, wireless signal charts, traffic usage history



# Security

Authentication	Pre-shared key, digital certificates, X.509 certificates, TACACS+, Internal & External RADIUS users authentication, IP & login attempts block, time-based login blocking, built-in random password generator
Firewall	Preconfigured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI, DMZ, NAT, NAT-T, NAT64
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
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
SSL certificate generation	Let's Encrypt and SCEP certificate generation methods



Omen\/DN	Multiple clients and a conversion run circulterequely 27 energy tion methods
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	XFRM, 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, Phase 2 and Phase 3 and Dual Hub support
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.
Tailscale	Tailscale offers speed, stability, and simplicity over traditional VPNs. Encrypted point- to-point connections using the open source WireGuard protocol
	- F
OPC UA	
Supported modes	Client, Server
Supported connection types	ТСР
MODBUS	
Supported modes	Server, Client
Supported connection types	TCP, RTU(RS232)
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 Client functionality
Supported data formats	8-bit: INT, UINT; 16-bit: INT, UINT (MSB or LSB first); 32-bit: float, INT, UINT (ABCD



## 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; Custom LUA scripting, allowing scripts to utilize the router's Data to server feature
MQTT Gateway	
Modbus MQTT Gateway	Allows sending commands and receiving data from MODBUS Server through MQTT broker
DNP3	
Supported modes	Station, Outstation
Supported connection	TCP, RTU(RS232)
DLMS	
DLMS Support	DLMS - standard protocol for utility meter data exchange
Supported modes	Client
Supported connection types	TCP, RTU(RS232)
COSEM	Allows to scan meter COSEM objects for automatic detection and configuration
API	
Teltonika Networks Web API (beta) support	Expand your device's possibilities by using a set of configurable API endpoints to retrieve or change data. For more information, please refer to this documentation: https://developers.teltonika-networks.com



# Monitoring & Management

HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, multiple event log servers, firmware update availability notifications, event log, system log, kernel log, Internet status
Firmware update from server, automatic notification
SSH (v1, v2)
Receive email message status alerts of various services
OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem
MQTT Broker, MQTT publisher
SNMP (v1, v2, v3), SNMP Trap, Brute force protection
Management API over HTTP/HTTPS
MODBUS TCP status/control
Teltonika Remote Management System (RMS)
Utility to interact with Thingworx cloud platform
Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP. Has reboot and firmware upgrade actions
Can be configured with Data to Server to send all the available parameters to the cloud. Has Direct method support which allows to execute RutOS API calls on the IoT Hub. Also has Plug and Play integration with Device Provisioning Service that allows zero-touch device provisioning to IoT Hubs
Utility to interact with the AWS cloud platform. Jobs Support: Call the device's API using AWS Jobs functionality
Mediatek, 580 MHz, MIPS 24KEc
128 MB, DDR2
16 MB serial NOR flash



## **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
Factory settings reset	A full factory reset restores all system settings, including the IP address, PIN, and use data to the default manufacturer's configuration
FIRMWARE CUSTOMISATION	
Operating system	RutOS (OpenWrt based Linux OS)
Supported languages	Busybox shell (ash), Lua 5.1, C, C++
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
Package Manager	The Package Manager is a service used to install additional software on the device
Serial	
RS232	Terminal block connector: TX, RX, RTS, CTS
Serial functions	Console, Serial over IP, Modem, MODBUS gateway, NTRIP Client
Power	
Connector	3-pos plugable terminal block
Input voltage range	9-30 VDC, reverse polarity protection, surge protection >31 VDC 10us max
PoE (passive)	Passive PoE over spare pairs. Possibility to power up through LAN2 port, not compatible with IEEE802.3af, 802.3at and 802.3bt standards, Mode B, 9 - 30 VDC
Power consumption	Idle: 1 W / Max: 2 W



# **Physical Interfaces**

Ethernet	2 x RJ45 ports, 10/100 Mbps
Status LEDs	2 x LAN type LED, 1 x Power LED
Power	1 x 3-pin power connector
Antennas	1 x RP-SMA for Wi-Fi
RS232	1 x DB9 socket
Reset	Reboot/User default reset/Factory reset button
Other	1 x Grounding screw

Physical Specification	
Casing material	Aluminium housing
Dimensions (W x H x D)	113.10 x 25 x 68.6 mm
Weight	149.2 g
Mounting options	Integrated DIN rail bracket, wall mount, flat surface (additional kit needed)
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, CB



# ORDERING

#### **STANDARD PACKAGE\***



- Industrial Access Point DAP142
- 3-pin power connector
- QSG (Quick Start Guide)
- Packaging box

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

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

### **CLASSIFICATION CODES**

HS Code: 851762 HTS: 8517.62.00

### **AVAILABLE VERSIONS**

DAP142 0\*\*\*\*\*

DAP142000000 / Standard package

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

N/A

# **DAP142 SPATIAL MEASUREMENTS**

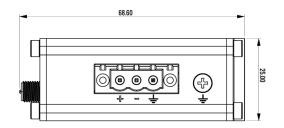
PHYSICAL SPECIFICATION	
Device housing (W x H x D)*:	113,10 x 25 x 68,6 mm
Box (W x H x D):	141 x 28,2 x 74,5 mm
	*Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.

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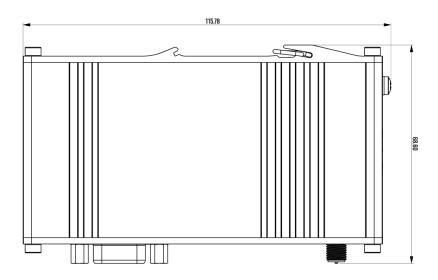
#### **TOP VIEW**

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



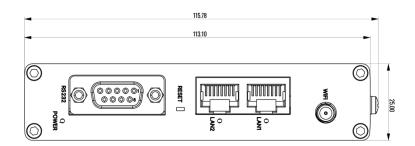
### **RIGHT VIEW**

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



#### **FRONT VIEW**

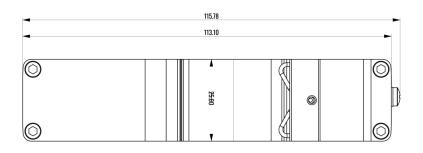
The figure below depicts the measurements of device and its components as seen from the front panel side:





#### **REAR VIEW**

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



#### MOUNTING SPACE REQUIREMENTS

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

