

PRD10807 – 4G WI-FI ROUTER DATASHEET



DESCRIPTION

PRD10807 is a dual band 4G Wi-Fi Router, designed with the most advanced technology to support a wide area wireless communication local area network, complying with the IEEE 802.11a/b/g/n/ac standard.

It has WAN and LAN ports, MIMO technology and a high processing performance supporting all national cellular bands providing high speed, secure and reliable mobile broadband services.

It was specifically designed, qualified and supported for use in automotive applications, with protection from voltage fluctuation of vehicle.

FEATURES

- Main Chipset MT7620A + MT7612E;
- IEEE 802.11a/b/g/n/ac compliance;
- RAM Memory DDR2 128MB;
- FLASH Memory 32MB;
- 10/100 Mbps Auto MDI/MDIX RJ45 Ports;
- USB2.0 Port;
- MICRO SD (TF) slot;
- Dual SIM Card slots for 4G;
- Access WAN PPPoE, Dynamic IP and Static IP;
- Working Mode as Router and Access Point;
- QoS control;
- DHCP server, Client table and Static IP;
- Firewall and Backup;
- WEB configuration;
- ANATEL Certification;
- Wi-Fi Encryption: 64/128/152 WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK;
- LED: PWR, 5G, 2.4G, 4G (3 levels of signal strength), LAN and WAN (link and activity);
- Reset Button;
- Powered by 24 Vdc Car/Bus Power Supply.

	By	Date	4G WI-FI ROUTER	ACTIA Reference	Index
Draw.	D. Januário	02/13/23		PRD10807	Rev01
Verif.	M. Franceschi	02/13/23			
Approv.	C. Dambroz	02/13/23			Page 1/4

TECHNICAL DATA

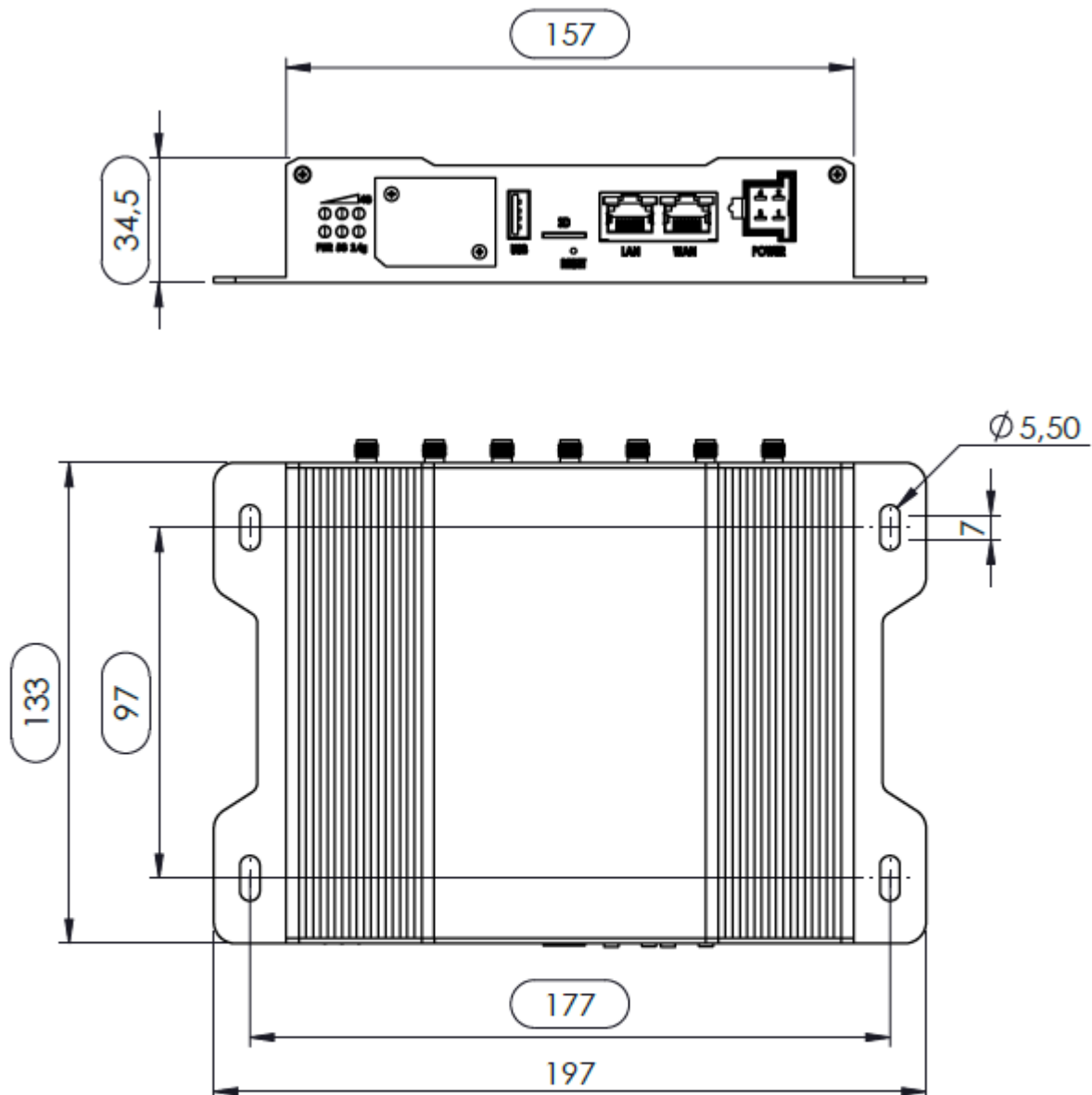
PARAMETER	RANGE	UNIT
Supply Voltage Range	18 up to 32	Vdc
Maximum Power Consumption	12	W
Maximum Current Consumption	0.5	A
Operating Temperature	-20 up to 70	°C
Storage Temperature	-40 up to 70	°C
Operating Humidity (non-condensing)	10 up to 90	%
Storage Humidity (non-condensing)	5 up to 90	%
Wi-Fi Frequency	2.4 and 5	GHz
Wi-Fi Bandwidth (configurable)	20 / 40 / 80	MHz
Wi-Fi Range (Free Area)	50	m
Quantity of Simultaneous Users	50	users
Wireless Rate	Up to 300 (2.4 GHz) Up to 876 (5 GHz)	Mbps
Wireless Power	802.11a: 20 ± 2 802.11b: 19 ± 1 802.11g: 17 ± 1 802.11n (BW = 20 MHz): 17 ± 1 802.11n (BW = 40 MHz): 15 ± 2 802.11ac: 20 ± 2	dBm
Reception Sensitivity	802.11a: ≤ -64 802.11b: ≤ -76 802.11g: ≤ -65 802.11n (BW = 20 MHz): ≤ -62 802.11n (BW = 40 MHz): ≤ -55 802.11ac: ≤ -59	dBm
Mobile Standard	LTE, UMTS/HSPA+, GSM/GPRS/EDGE	-
4G LTE Frequency Bands	B1, B2, B3, B4, B5, B7, B8, B28, B40	-
3G WCDMA Frequency Bands	B1, B2, B5, B8	-
2G GSM Frequency Bands	B2, B3, B5, B8	-
Detachable Omnidirectional Antennas Gain	5	dBi
Housing Material	Aluminum	-
Weight	980	g

CERTIFICATION

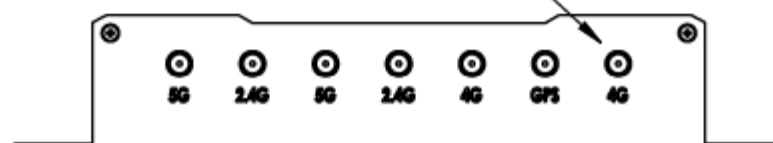
ANATEL (Brazil Telecommunications National Agency): Approval Certificate Nº 00713-22-10391.

DIMENSIONS

(Millimeters)

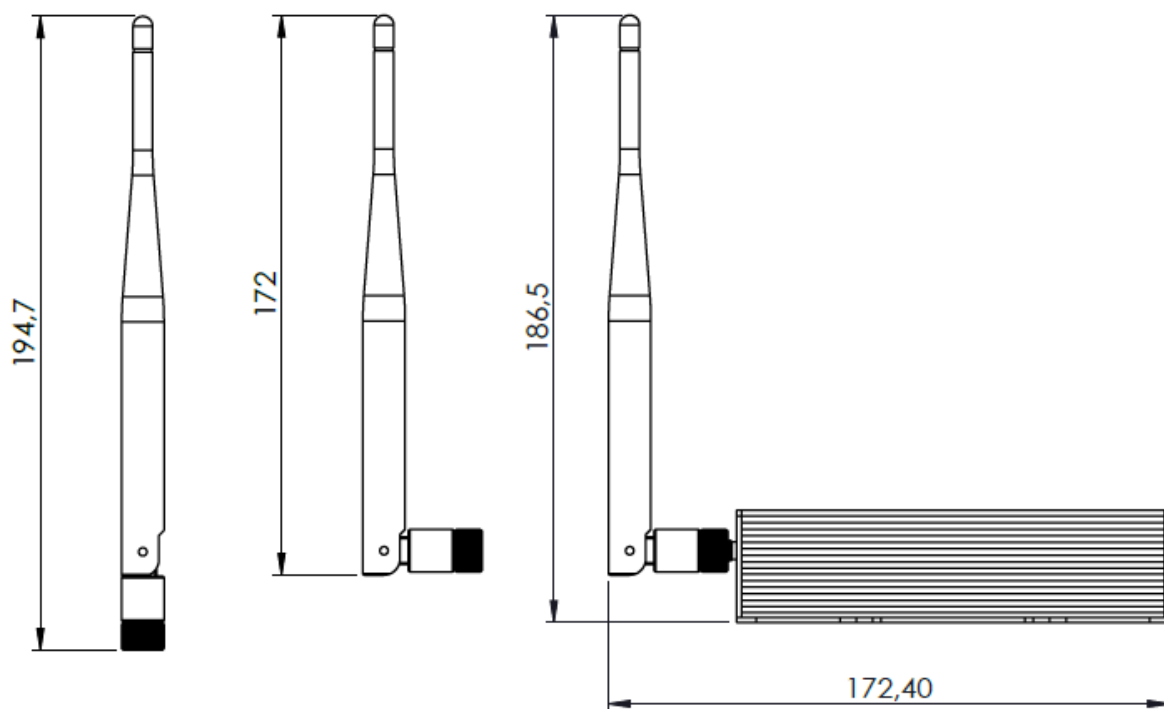


Antennas connection - SMA connectors

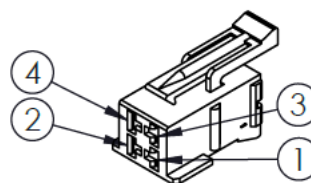
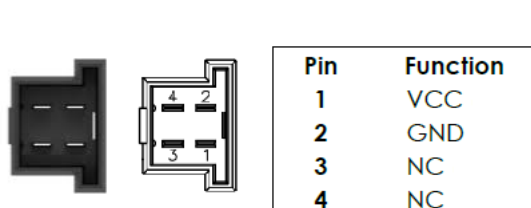


ANTENNAS

(Millimeters)



POWER SUPPLY CONNECTOR



Connector counterpart detail

Manufacturer: TE Connectivity
Part Number: 929504-1

REVISIONS HISTORY

Rev	Date	Draw	Description
00	06/24/22	D. Santos	Initial document
01	02/13/23	D. Januário	Update of Technical Data