



Ideal for

- FirstNet
- Emergency Communications
- High Speed Video Transmissions
- Mobile Broadband

Bernese Mountain Dog Mobile HotSpot

9.1 Antenna



Features

- FirstNet
- 4X4 MIMO LTE
- Optional Additional 2X2 MIMO LTE
- 5G & Wi-Fi 6
- High Efficiency

For more information, contact:



Product Description

Parsec's Bernese Mountain Dog Series is a low profile 9:1, four element 4X4 MIMO LTE, with an additional and separate two element MIMO LTE, two element MIMO Wi-Fi and GNSS external waterproof antenna fully contained in the lid of a customizable waterproof box.

The Bernese Mountain Dog supports the simultaneous operation of two separate LTE modems: one modem with 4x4 MIMO and an additional modem with optional 2x2 MIMO. This rugged low-profile omni-directional antenna works on all the common North American LTE bands with high efficiency. Also supports PLTE and LAA.

Patent pending.

Operation Time

- Chargetech 27k Battery: 15 - 18hrs

Frequency Ranges

5G/4G/LTE Frequency Range Wi-Fi Frequency Range

- 617 - 894 MHz
- 1710 - 2700 MHz
- 3400 - 4000 MHz
- 5150 - 5925 MHz
- 2400 - 2483.5 MHz
- 4900 - 5900 MHz



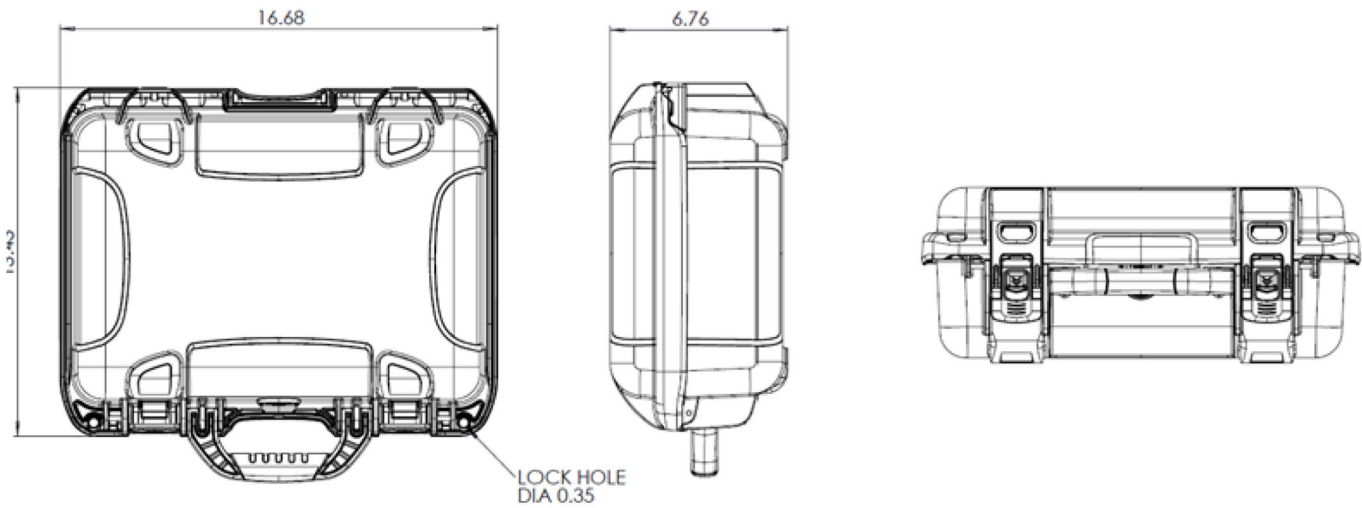
1st to 5G
Antennas

Specifications

5G*/4G/LTE Bands (US Carriers)

AT&T	2, 4, 5*, 12, 14, 17, 29, 30, 48, 66, 77*
Verizon	2*, 4, 5*, 13, 48, 66*
T-Mobile	2, 4, 12, 25, 26, 41*, 48, 66, 71*, 77*
Mechanical	
Dimensions	15" x 10.5" x 6.2"
Internal Dimensions (LxWxH)	16.7" x 13.4" x 6.8"
RF Cable Length	18 inch pigtails
Environmental	
Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof when closed

Product Dimensions



Product Images

PRO9MD6L2WG-G



Product Images Continued

PRO9MD6L2WG-L



Electrical Specifications

ID	Port	Parameters	Units	Typ.
Radiated Efficiency	LTE-1 thru 6	617 – 698 MHz	%	70
	LTE-1 thru 6	698 – 894 MHz		80
	LTE-1 thru 6	1710 – 2200 MHz		85
	LTE-1 thru 6	2200 – 2700 MHz		70
	LTE-1 thru 6	3400 – 4000 MHz		50
	LTE-1 thru 6	5150 – 5925 MHz		50
	GPS	1575.42 MHz		80
	WiFi-1,2	2400 – 2483.5 MHz		85
	WiFi-1,2	4900 – 5900 MHz		75
Peak Gain	LTE-1 thru 6	617 – 698 MHz	dBi	2
	LTE-1 thru 6	698 – 894 MHz		5
	LTE-1 thru 6	1710 – 2200 MHz		7
	LTE-1 thru 6	2200 – 2700 MHz		6
	LTE-1 thru 6	3400 – 4000 MHz		7.5
	LTE-1 thru 6	5150 – 5925 MHz		8.5
	GPS	1575.42 MHz		6
	WiFi-1,2	2400 – 2483.5 MHz		7
	WiFi-1,2	4900 – 5900 MHz		8.5
Return Loss (50 Ω)	LTE-1 thru 6	617 – 698 MHz	dB	7
	LTE-1 thru 6	698 – 894 MHz		9
	LTE-1 thru 6	1710 – 2200 MHz		12
	LTE-1 thru 6	2200 – 2700 MHz		7
	LTE-1 thru 6	3400 – 4000 MHz		6
	LTE-1 thru 6	5150 – 5925 MHz		6
	GPS	1575.42 MHz		12
	WiFi-1,2	2400 – 2483.5 MHz		12
	WiFi-1,2	4900 – 5900 MHz		9
Isolation	LTE	617 – 894 MHz	dB	10
	LTE	1710 – 2700 MHz		18
	LTE	2200 – 2700 MHz		22
	LTE	3400 – 4000 MHz		27
	LTE	5150 – 5925 MHz		30
	WiFi	2400 – 2483.5 MHz		19
	WiFi	4900 – 5900 MHz		30
Polarization	LTE, WiFi GPS		dBi	Linear RHCP
Max Input Power	LTE, WiFi		Watts	5
GNSS Preamp Gain	GPS		dB	28
GNSS Preamp Voltage	GPS		V	2.2 to 5.0
RF Connectors	LTE, GPS			SMA(M)
	WiFi			RP-SMA
RF Cable Type	LTE, WiFi			RG-316
	GPS			LSR100
Notes:				
1. Electrical specifications based on antenna mounted in the lid of the plastic enclosure.				
2. Gain, efficiency, return loss and isolation does not include cable loss.				

Notes: *Battery, route, and SIM card are not included.* Customers should contact Parsec's authorized Distributors and VAR's listed on our website for a full list of routers and other options that will complete the Emergency Hot Spot.

SMA connectors have a max torque of 3-5 inch lbs.

Battery Options

ChargeTech Portable Power Outlet 27K 3.0 (G version)

The ChargeTech 27000mAh capacity battery has a standard outlet and is compatible with any device that requires 85 watts or less though a standard wall plug. The ChargeTech can power an IBR900 router and a fan for 15 to 18 hours. It comes with a power button which turns off the battery when held for 3 seconds. The battery is rechargeable using a DC charger rated 19.5 to 24V DC.

Ordering

Configurations	Part Number	Description
7:1	PRO7MD4L2WG-G	4 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid with Battery option (see antenna options for description).
7:1	PRO7MD4L2WG-L	4 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid with AC adapter (see antenna options for description).
8:1	PRO8MD4L4WBG-G	4 LTE, 4 Wi-Fi, Bluetooth, GPS, black case with antenna built into lid with AC adapter (see antenna options for description).
9:1	PRO9MD6L2WG	6 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid.
9:1	PRO9MD6L2WG-G	6 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid with Battery option (see antenna options for description).
9:1	PRO9MD6L2WG-L	6 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid with AC adapter (see antenna options for description).
9:1	PRO9MD6L2WG-A	6 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid with AC adapter (see antenna options for description).

Part Number Key

Part number example of a 9:1 Bernese Mountain Dog antenna PRO9MD6L2WG

Description	Abbreviation	Part Number
All PRO Series	PRO	PRO
Number of antennas in housing/configuration	9:1	PRO9
Antenna abbreviation for Bernese Mountain Dog	MD	PRO9MD
Number of LTE Elements	#L	PRO9MD6L
Number of WiFi Elements	#W	PRO9MD6L4W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO9MD6L2WG
Optional G version – includes the below options	-G	PRO9MD6L2WG-G
Optional L version – includes the below options	-L	PRO9MD6L2WG-L
Optional A version – Includes the below options	-A	PRO9MD6L2WG-A

Antenna Options

Description	PRO9MD6L2WG	-G Version	-L Version	-A Version
PRO9MD6L2WG	YES	YES	YES	YES
FAN	NO	YES	YES	NO
A/C Adapter	NO	NO	YES	YES
Barrel Connector	NO	YES	NO	NO
1x USB Adapter	NO	YES	NO	NO
4x RJ-45 Connectors	NO	YES	YES	NO
Router Mount Plate	NO	YES	YES	YES
Top Cover	NO	YES	YES	YES
Battery Tray	NO	YES	NO	NO
Battery: Chargetech 27k Dual AC Battery Pack - Portable Power Supply (Not Included With Antenna)				

Additional Items

PRO9MD6L2WG-G	
Included	Ethernet Cord (4), USB Cord (1)
To be purchased by customer	-Additional ethernet cords (4) -USB cord (1) -Router and power supply for router -SIM card -ChargeTech 27k AC Battery Pack**

PRO9MD6L2WG-L	
Included	Ethernet Cord (4)
To be purchased by customer	-Additional ethernet cords (4) -Power cord for case* -Router and power supply for router -SIM card

PRO9MD4L4WG-A	
To be purchased by customer	-Power cord for case* -Router and power supply for router -SIM card

Power cord*=



**Battery=

