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ANTENNAS
1st to 5G *Antennas*

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

100% TESTED

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MADE IN AMERICA

Product Description

Parsec's Bernese Mountain Dog Series is a low profile 9:1, four element 4X4 MIMO LTE, with an aditional 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

• 617 - 894 MHz

• 1710 - 2700 MHz

• 3400 - 4000 MHz

• 5150 - 5925 MHz

Wi-Fi Frequency Range

• 2400 - 2483.5 MHz

• 4900 - 5900 MHz

Specifications

5G/4G/LTE Bands	
North America	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B41, B46, B48, B66, B71 n2, n5, n12, n25, n26, n41, n48, n66, n71, n77
EMEA	B1, B3, B7, B20, B28, B42, B43, B46 n1, n3, n28, n77, n78
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	-40ºC to 85ºC
Ingress Protection	IP67 waterproof when closed

Product Dimensions

16.68

6.76

LOCK HOLE
DIA 0.35

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		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	dBi	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		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	dB	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		10
	LTE	1710 – 2700 MHz		18
	LTE	2200 – 2700 MHz		22
	LTE	3400 – 4000 MHz	dB	27
	LTE	5150 – 5925 MHz		30
	WiFi	2400 – 2483.5 MHz		19
	WiFi	4900 – 5900 MHz		30
Polarization	LTE, WiFi		dBi	Linear
	GPS			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.

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Ordering

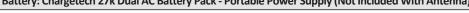| Configurations	Part Number	Description
7:1	PRO7MD4L2WG-G	4 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid with Battery option (see antenna options for description).
7:1	PRO7MD4L2WG-L	4 LTE, 2 Wi-Fi, GPS, black case with antenna built into lid with AC adapter (see antenna options for description).
8:1	PRO8MD4L2WBG-G	4 LTE, 2 Wi-Fi, Bluetooth, GPS, black case with antenna built into lid with Battery option (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=

Parsec Technologies
972-804-4600
support@parsec-t.com