



The Doberman PRO Series antenna is a 5G 2X2 MIMO cellular, 3X3 MIMO Wi-Fi, omni-directional antenna with GPS. The Doberman is designed for high performance of 600 MHz to 6 GHz frequencies for industrial IoT, mobile, and enterprise network solutions.

This PRO Series, IP67 rated antenna is our toughest design yet, able to withstand high vibration and shock while performing at high efficiency on heavy-duty fracking equipment, construction fleets, and other outdoor equipment operating under harsh conditions.

Patent Pending



Configurations 2:1 | 3:1 | 4:1 | 5:1 | 6:1

Industrial IoT | Transportation Fleets | Public Safety | Mobile Broadband

Vibration & Shock Resistant

Built Rugged for High Impact

High Speed Data

Fast Enough for Remote Video Monitoring

Waterproof

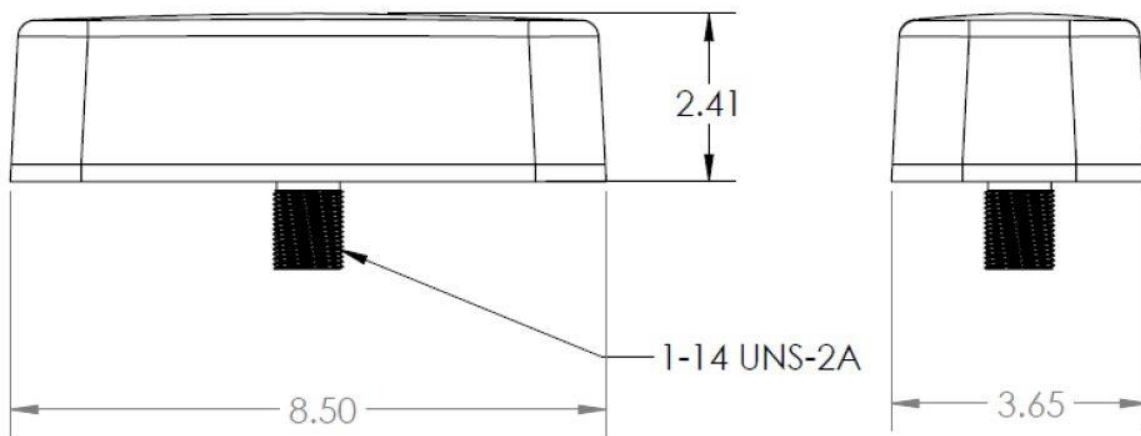
IP67 Rated with Watertight Gaskets

- 2X2 MIMO CELLULAR
- UP TO 3X3 MIMO WI-FI
- OMNI-DIRECTIONAL
- GPS
- 600 MHz – 6 GHz
- 8.50 in X 3.65 in X 2.41 in
- Wi-Fi 6 COMPATIBLE

Specifications

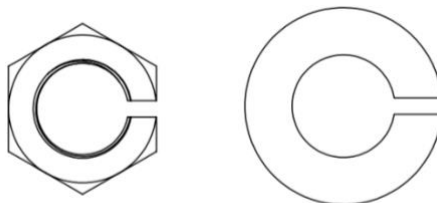
<i>Frequencies</i>			
4G/5G Cellular	617-894 MHz 1710-2700 MHz 3400-3800 MHz 5150-5925 MHz	Wi-Fi	2400-2483.5 MHz 4900-5900 MHz
<i>4G/5G Bands</i>			
North America	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B30, B41, B46, B48, B66, B71 n2, n5, n12, n25, n26, n41, n48, n66, n71		
EMEA	B1, B3, B7, B20, B28, B42, B43, B46 n1, n3, n28, n78		
<i>Mechanical</i>		<i>Environmental</i>	
Dimension	8.50 inch x 3.65 inch x 2.41 inch	Operating Temperature	-30 °C to 85°C OR -22 °F to 180°F
Mounting	Single 1.5 inch	Ingress Protection	IP67

Dimensions



Hardware Accessories Included

PTA0761



Product Images



Electrical Specifications

<i>ID & Unit</i>	<i>Port</i>	<i>Parameters</i>	<i>Typ.</i>
Radiated Efficiency (%)	CELL 1, 2	617-894 MHz	85
	CELL 1, 2	1710-2700 MHz	85
	CELL 1, 2	3400-3800 MHz	70
	CELL 1, 2	5150-5925 MHz	65
	GPS	1575.42 MHz	80
	Wi-Fi 1, 2, 3	2400-2483.5 MHz	70
	Wi-Fi 1, 2, 3	4900-5900 MHz	70
Peak Gain (dBi)	CELL 1, 2	617-894 MHz	5
	CELL 1, 2	1710-2700 MHz	7
	CELL 1, 2	3400-3800 MHz	7
	CELL 1, 2	5150-5925 MHz	7
	Wi-Fi 1, 2, 3	2400-2483.5 MHz	5
	Wi-Fi 1, 2, 3	4900-5900 MHz	6
Return Loss 50Ω (dB)	CELL 1, 2	617-894 MHz	9.5
	CELL 1, 2	1710-2700 MHz	12
	CELL 1, 2	3400-3800 MHz	9
	CELL 1, 2	5150-5925 MHz	8
	GPS	1575.42 MHz	12
	Wi-Fi 1, 2, 3	2400-2483.5 MHz	11
	Wi-Fi 1, 2, 3	4900-5900 MHz	9
Isolation	CELL	617-894 MHz	9.5
	CELL	1710-2700 MHz	15

	CELL	3400-3800 MHz	20
	CELL	5150-5925 MHz	25
	Wi-Fi	2400-2483.5 MHz	15
	Wi-Fi	4900-5900 MHz	19
Polarization	CELL, Wi-Fi GPS		Linear RHCP
Max Input Power (Watts)	CELL, Wi-Fi		10
GNSS Preamp Gain (dB)	GPS		28
GNSS Preamp Voltage (V)	GPS		2.2 to 5.0
RF Connectors	CELL, GPS Wi-Fi		SMA(M) RPSMA(M)
RF Cable Type	CELL, Wi-Fi GPS		LSR200 LSR100
- Electrical Specifications based on antenna with a 2 ft x 2 ft external ground plane. - Isolation, return loss, and peak gain does not include cable loss. - SMA connectors have a max torque of 3-5 inch lbs. - NF connectors have a max torque of 6.2-9.7 inch lbs. - Parsec is currently phasing out inventory with LTE on our Cellular cables (now labeled CELL). For cables labeled LTE, please refer port "CELL" in the data sheets and installation instructions.			

Part Number Key

Part number example of a 6:1 Doberman antenna, black: PRO6D2L3WG15BS

<i>Description</i>	<i>Abbreviation</i>	<i>Part Number</i>
All PRO Series	PRO	PRO
Number of Antennas in Housing/Configuration	6:1	PRO6
Antenna Abbreviation for Doberman	D	PRO6D
Number of CELL Elements	#L	PRO6D2L
Number of Wi-Fi Elements	#W	PRO6D2L3W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO6D2L3WG
Cable Length Measured in Feet: 01=1', 15=15'	01, 15, etc.,	PRO6D2L3WG15
Radome color - B for Black, W for White	B or W	PRO6D2L3WG15B
1.25" Bolt is Standard, leave blank. Add S for Short Bolt, 0.6"	S	PRO6D2L3WG15BS
SMA Connector, simply leave blank		PRO6D2L3WG15BS
N Type Female Connector	-NF	PRO6D2L3WG15BS-NF
Custom connectors and cable kits are available. Please contact us for more information at sales@parsec-t.com .		

Ordering

Standard Antennas

<i>Config.</i>	<i>Part Number</i>	<i>Description</i>
2:1	PRO2D2L15B	2 Cellular, 15 ft Cable, Black
	PRO2D2L15BS	2 Cellular, 15 ft Cable, Black, Short Bolt
3:1	PRO3D2LG15B	2 Cellular, GPS, 15 ft Cable, Black
	PRO3D2LG15BS	2 Cellular, GPS, 15 ft Cable, Black, Short Bolt
5:1	PRO5D2L2WG15B	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black
	PRO5D2L2WG15BS	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black, Short Bolt

Non-Standard Antennas

<i>Config.</i>	<i>Part Number</i>	<i>Description</i>
2:1	PRO2D2L01B	2 Cellular, 1 ft Cable, Black
	PRO2D2L01BS	2 Cellular, 1 ft Cable, Black, Short Bolt
	PRO2D2L01B-NF	2 Cellular, 1 ft Cable, Black, N Type Female
	PRO2D2L01BS-NF	2 Cellular, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO2D2L01W	2 Cellular, 1 ft Cable, White
	PRO2D2L01WS	2 Cellular, 1 ft Cable, White, Short Bolt
	PRO2D2L01W-NF	2 Cellular, 1 ft Cable, White, N Type Female
	PRO2D2L01WS-NF	2 Cellular, 1 ft Cable, White, Short Bolt, N Type Female
	PRO2D2L15W	2 Cellular, 15 ft Cable, White
	PRO2D2L15WS	2 Cellular, 15 ft Cable, White, Short Bolt
3:1	PRO3D2LG01B	2 Cellular, GPS, 1 ft Cable, Black
	PRO3D2LG01BS	2 Cellular, GPS, 1 ft Cable, Black, Short Bolt
	PRO3D2LG01B-NF	2 Cellular, GPS, 1 ft Cable, Black, N Type Female
	PRO3D2LG01BS-NF	2 Cellular, GPS, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO3D2LG01W	2 Cellular, GPS, 1 ft Cable, White
	PRO3D2LG01WS	2 Cellular, GPS, 1 ft Cable, White, Short Bolt
	PRO3D2LG01W-NF	2 Cellular, GPS, 1 ft Cable, White, N Type Female
	PRO3D2LG01WS-NF	2 Cellular, GPS, 1 ft Cable, White, Short Bolt, N Type Female
	PRO3D2LG15W	2 Cellular, GPS, 15 ft Cable, White
	PRO3D2LG15WS	2 Cellular, GPS, 15 ft Cable, White, Short Bolt
4:1	PRO4D2L2W01B	2 Cellular, 2 Wi-Fi, 1 ft Cable, Black
	PRO4D2L2W01BS	2 Cellular, 2 Wi-Fi, 1 ft Cable, Black, Short Bolt
	PRO4D2L2W01B-NF	2 Cellular, 2 Wi-Fi, 1 ft Cable, Black, N Type Female
	PRO4D2L2W01BS-NF	2 Cellular, 2 Wi-Fi, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO4D2L2W01W	2 Cellular, 2 Wi-Fi, 1 ft Cable, White
	PRO4D2L2W01WS	2 Cellular, 2 Wi-Fi, 1 ft Cable, White, Short Bolt
	PRO4D2L2W01W-NF	2 Cellular, 2 Wi-Fi, 1 ft Cable, White, N Type Female
	PRO4D2L2W01WS-NF	2 Cellular, 2 Wi-Fi, 1 ft Cable, White, Short Bolt, N Type Female
	PRO4D2L2W15B	2 Cellular, 2 Wi-Fi, 15 ft Cable, Black

	PRO4D2L2WI5BS	2 Cellular, 2 Wi-Fi, 15 ft Cable, Black, Short Bolt
	PRO4D2L2WI5W	2 Cellular, 2 Wi-Fi, 15 ft Cable, White
	PRO4D2L2WI5WS	2 Cellular, 2 Wi-Fi, 15 ft Cable, White, Short Bolt
5:1	PRO5D2L2WG01B	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black
	PRO5D2L2WG01BS	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt
	PRO5D2L2WG01B-NF	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black, N Type Female
	PRO5D2L2WG01BS-NF	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO5D2L2WG01W	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White
	PRO5D2L2WG01WS	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt
	PRO5D2L2WG01W-NF	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White, N Type Female
	PRO5D2L2WG01W-NF-MG	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White, N Type Female, Marine Grade
	PRO5D2L2WG01WS-NF	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt, N Type Female
	PRO5D2L2WG15B	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black
	PRO5D2L2WG15W	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White
	PRO5D2L2WG15W-NF-MG	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White, N Type Female, Marine Grade
	PRO5D2L2WG15WS	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White, Short Bolt
6:1	PRO6D2L3WG01B	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, Black
	PRO6D2L3WG01BS	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt
	PRO6D2L3WG01B-NF	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, Black, N Type Female
	PRO6D2L3WG01BS-NF	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO6D2L3WG01W	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, White
	PRO6D2L3WG01WS	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt
	PRO6D2L3WG01W-NF	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, White, N Type Female
	PRO6D2L3WG01WS-NF	2 Cellular, 3 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt, N Type Female
	PRO6D2L3WG15B	2 Cellular, 3 Wi-Fi, GPS, 15 ft Cable, Black
	PRO6D2L3WG15BS	2 Cellular, 3 Wi-Fi, GPS, 15 ft Cable, Black, Short Bolt
	PRO6D2L3WG15W	2 Cellular, 3 Wi-Fi, GPS, 15 ft Cable, White
	PRO6D2L3WG15WS	2 Cellular, 3 Wi-Fi, GPS, 15 ft Cable, White, Short Bolt

Additional Hardware Accessories

<i>Accessory</i>	<i>Part Number</i>
Mini Pole Mount Bracket Assembly, 1" Hole	PTA0637
L Bracket, Antenna Mount Assembly	PTA0756
Magnetic Mount	PTA0330
Gasket Assembly - Dodge Charger	PTA0339
Gasket Assembly - Ford Explorer	PTA0340
Replacement Rooftop Gasket	PTA0110
Gasket Assembly - 2021 Ford Explorer	PTA0644
Roof Top Ford Explorer Gasket	PTA0649
Hardware Kit for 1" Shaft - Nut/Washer	PTA0760
1" Star Washer	PTA0251
Ground plane with adhesive back, 20in x 20in, can be cut to size	PTA0587
Surge Arrestor - SMA(F) to SMA(F)	PTA0476
Surge Arrestor - N(F) to N(M)	PTA0736
SMA Wrench, Key Chain	PTA0194
Service: Cable Sleeving (priced per ft)	Cable Sleeving



Parsec Antennas

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