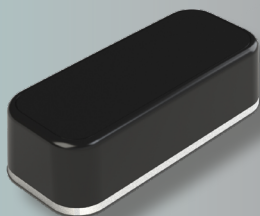




Doberman PRO Series



- MIMO LTE
- MIMO WIFI
- GPS
- IP67 RATED

Ideal for:

- FirstNet/First Responders
- Transportation/Fleet
- Remote Video Monitoring
- Mobile Broadband

Features

- 5G
- CAT 18
- 600 MHz - 6 GHz*
- HIGH EFFICIENCY
- HIGH PERFORMANCE

*See inside for details



Product Description

The Doberman antennas are high-performance, 5G, CAT18 (600MHz - 6GHz) antennas, available with MIMO LTE, Up to 3X WiFi, and GPS. The Doberman Series antennas are perfect for mobile and fixed wireless applications.

The Doberman Series are rugged, high-performance, IP67 rated antennas. **Patent pending.**

Frequency Ranges

LTE frequency range

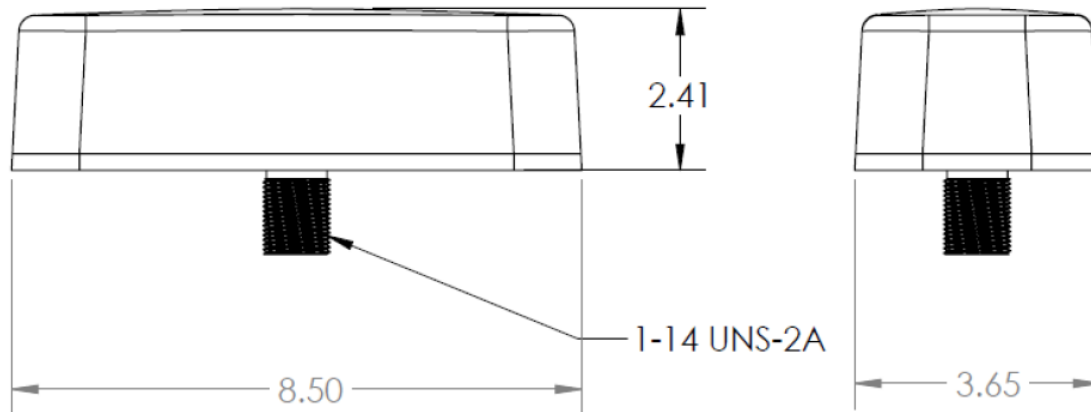
- 617 – 894 MHz
- 1695 – 2700 MHz
- 3300 – 3800 MHz (CBRS)
- 5150 – 5925 MHz (LTE LAA)



LTE Bands (US Carriers)

AT&T	2, 4, 5, 14, 17, 29, 30, 46, 48, 66
Verizon	2, 4, 5, 13, 46, 48, 66
T-Mobile	2, 4, 12, 46, 48, 66, 71
Sprint	2, 25, 26, 41, 46, 48
Mechanical	
Dimensions	8.50 in. L x 3.65 in. W x 2.41 in. H
Mounting Hole	Single 1 inch
Environmental	
Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof

Product Dimensions



Electrical Specifications

ID	Port	Parameters	Units	Typ.
Radiated Efficiency	LTE-1,2	617 – 894 MHz	%	85
	LTE-1,2	1695 – 2700 MHz		85
	LTE-1,2	3300 – 3800 MHz		70
	LTE-1,2	5150 – 5925 MHz		65
	GPS	1575.42 MHz		80
	WiFi-1,2,3	2400 – 2483.5 MHz		70
	WiFi-1,2,3	4900 – 5900 MHz		70
Peak Gain	LTE-1,2	617 – 894 MHz	dBi	5
	LTE-1,2	1695 – 2700 MHz		7
	LTE-1,2	3300 – 3800 MHz		7
	LTE-1,2	5150 – 5925 MHz		7
	GPS	1575.42 MHz		6
	WiFi-1,2,3	2400 – 2483.5 MHz		5
	WiFi-1,2,3	4900 – 5900 MHz		6
Return Loss (50 Ω)	LTE-1,2	617 – 894 MHz	dB	9.5
	LTE-1,2	1695 – 2700 MHz		12
	LTE-1,2	3300 – 3800 MHz		9
	LTE-1,2	5150 – 5925 MHz		8
	GPS	1575.42 MHz		12
	WiFi-1,2,3	2400 – 2483.5 MHz		11
	WiFi-1,2,3	4900 – 5900 MHz		9
Isolation	LTE	617 – 894 MHz	dB	9.5
	LTE	1695 – 2700 MHz		15
	LTE	3300 – 3800 MHz		20
	LTE	5150 – 5925 MHz		25
	WiFi	2400 – 2483.5 MHz		15
	WiFi	4900 – 5900 MHz		19

Electrical Specifications

(Continued)

Polarization	LTE, WiFi GPS		Linear RHCP
Max Input Power	LTE, WiFi	Watts	10
GNSS Preamp Gain	GPS	dB	28
GNSS Preamp Voltage	GPS	V	2.2 to 5.0
RF Connectors	LTE, GPS WiFi		SMA(M) RP-SMA
Cables	LTE, WiFi GPS		LMR200 LMR100
Notes: 1. Electrical specifications based on antenna with a 2 ft. x 2 ft. external ground plane. 2. Isolation and return loss does not include cable loss.			

Ordering

Our Doberman antennas come in 1' or 15' cable options and black or white radome.

Configurations	Order Number	Description
2:1	PRO2D2L01B	2 LTE, GPS, 1' cable, black radome
	PRO2D2L15B	2 LTE, GPS, 15' cable, black radome
	PRO2D2L01W	2 LTE, GPS, 1' cable, white radome
	PRO2D2L15W	2 LTE, GPS, 15' cable, white radome
3.1	PRO3D2LG01B	2 LTE, GPS, 1' cable, black radome
	PRO3D2LG15B	2 LTE, GPS, 15' cable, black radome
	PRO3D2LG01W	2 LTE, GPS, 1' cable, white radome
	PRO3D2LG15W	2 LTE, GPS, 15' cable, white radome
4.1	PRO4D2L2W01B	2 LTE, 2 WiFi, 1' cable, black radome
	PRO4D2L2W15B	2 LTE, 2 WiFi, 15' cable, black radome
	PRO4D4LG01W	2 LTE, 2 WiFi, 1' cable, white radome
	PRO4D4L2WG15W	2 LTE, 2 WiFi, 15' cable, white radome
5.1	PRO5D2L2WG01B	2 LTE, 2 WiFi, GPS, 1' cable, black radome
	PRO5D2L2WG15B	2 LTE, 2 WiFi, GPS, 15' cable, black radome
	PRO5D2L2WG01W	2 LTE, 2 WiFi, GPS, 1' cable, white radome
	PRO5D2L2WG15W	2 LTE, 2 WiFi, GPS, 15' cable, white radome
6.1	PRO6D2L3WG01B	2 LTE, 3 WiFi, GPS, 1' cable, black radome
	PRO6D2L3WG15B	2 LTE, 3 WiFi, GPS, 15' cable, black radome
	PRO6D2L3WG01W	2 LTE, 3 WiFi, GPS, 1' cable, white radome
	PRO6D2L3WG15W	2 LTE, 3 WiFi, GPS, 15' cable, white radome

Part Number Key

Part number example for a 6:1 Doberman antenna, black:
PRO6D2L3WG15B

Description	Abbreviation	Part Number
All PRO Series	PRO	PRO
Number of antennas in housing/configuration	6:1	PRO6
Antenna abbreviation for Doberman	D	PRO6D
Number of LTE Elements	# L	PRO6D2L
Number of WiFi 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
If SMA connector, simply leave blank		PRO6D2L3WG15B
N connector	N	PRO6D2L3WG15BN
TNC connector	T	PRO6D2L3WG15BT