parsec ANTENNAS



Boxer-IQ Series

Next Generation, Compact, Portable, High Performance Case for Reliable, On-the-Go Connectivity

TAA Compliant

100% TESTED parsec ANTENNAS MADE IN AMERICA

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Boxer-IQ Series

Compact, Portable, High Performance Case, Next Gen



The Boxer-IQ is the newest addition to Parsec's Boxer PRO Series, combining high-performance connectivity, integrated antennas, and **Parsec-engineered battery power** into one compact, portable solution.

A 7:1 antenna array is built directly into the case lid, **featuring four cellular elements, two Wi-Fi elements, and GPS**. The integrated antenna system delivers **4x4 MIMO 5G connectivity through C-band, along with 2.4 GHz and 5 GHz Wi-Fi**, providing the connectivity needed for demanding mobile and remote deployments.

Portable Connectivity
Powered by Parsec

- 4x4 MIMO Cellular, 2x2 MIMO Wi-Fi, GPS
- Custom Parsec Battery and Charger
- Up to 13-Hour Battery Life
- Antenna Built Seamlessly into Case Lid
- **External Power Switch, Operate Without Opening the Case**



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Boxer-IQ Series

Compact, Portable, High Performance Case, Next Gen

Power Up. Check Status. Stay Protected.

A Case with True Intelligence

The Boxer-IQ is **designed to be operated while closed, helping simplify deployment while keeping critical equipment protected.**

An external power switch brings the network online without opening the case, while a color-coded battery indicator lets operators check remaining power at a glance.



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Boxer-IQ Series

Compact, Portable, High Performance Case, Next Gen



Rugged. Mission Ready.

Constructed from shock-absorbing, impact-resistant resin, the Boxer-IQ is built for demanding environments and mobile operations.

Every unit includes a factory-installed Custom Parsec Battery and charger, with configurable connector, cable, and router options.

Custom Parsec Battery

- External Power Button
- Battery Power Indicator
- Secure Communications

Parsec Performance Gaurantee ✓Certified

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Built For Critical Communications

Applications



Transportation/ Fleet



Critical Responders



Disaster Recovery



Remote Video Monitoring



Primary or Network Failover



Remote Medical Units

Why Choose the Boxer-IQ

- 4x4 MIMO Cellular, 2x2 MIMO Wi-Fi, GPS
- Custom Parsec Battery and Charger
- Up to 13-Hour Battery Life
- Antenna Built Seamlessly into Case Lid
- External Power Switch, Operate Without Opening the Case



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Boxer-IQ Series



Specification Overview

PRO Boxer Series		
Applications:	Emergency Communication, Backup Mobile Command Center	
Configurations:	7:1 - 4 CELL, 2 Wi-Fi, L1/L5 GPS 5:1 - 2 CELL, 2 Wi-Fi, L1/L5 GPS	
Categories:	Enterprise, Mobile, Public Safety, 5G	
Antennas Included:	Cellular, Wi-Fi, Bluetooth and GPS	
Type:	Case/Enclosure	
Antenna Pattern:	Omni–Directional	
Available Colors:	Black	
Cable Type:	Cellular	RG-316
	Wi-Fi	RG-316
	GPS	LSR100
Standard Cable Length:	13 IN Pigtails	
Standard Connector options:	Cellular	SMA(M)
	Wi-Fi	RP-SMA(M)
	GPS	SMA(M)

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Boxer-IQ Series

Specifications

Frequencies			
4G/5G Cellular	617-894 MHz 1710-2700 MHz 3400-4000 MHz 5150-5925 MHz	**Wi-Fi**	2400-2483.5 MHz 4900-5900 MHz
		L1/L5 Dual Band GPS	1563 - 1587 MHz 1164 - 1189 MHz
4G/5G 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		**Environmental**	
Dimensions	13 inch x 9.25 inch x 5.12 inch	**Enclosure Operating Temperature**	-40°C to 85°C OR -22°F to 180°F
Battery (Included)	Custom Parsec Battery	**Battery Operating Termperature**	-20°C to 40°C OR -4°F to 104°F
Router Options (CB)	Digi IX25 Ericsson R980 Ericsson R920 Peplink MAX BR1 Pro 5G Peplink MAX BR1 Mini 5G Semtech RX400 Semtech XR60	**Radome Material**	Plastic
Max Router Configuration	4 Cellular, 2 Wi-Fi, GPS	**Connectors**	CELL: SMA(M) Wi-Fi: RP-SMA(M) GPS: SMA(M)
Max Router Dimensions	5.80" X 6.84" X 1.51"	**RF Cable Length**	13 inch pigtails

- For customizations, such as Connector Type, Cable Length, Color, Router Configuration, and Branding, please reach out to Parsec at sales@parsec-t.com
- Temperature range is for enclosure only. Equipment installed inside the enclosure may have a different temperature range.

*When lid and all ports are closed. Openings in the enclosure for options like fans and power cords may reduce ingress protection even with covers installed.

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Technical Drawing

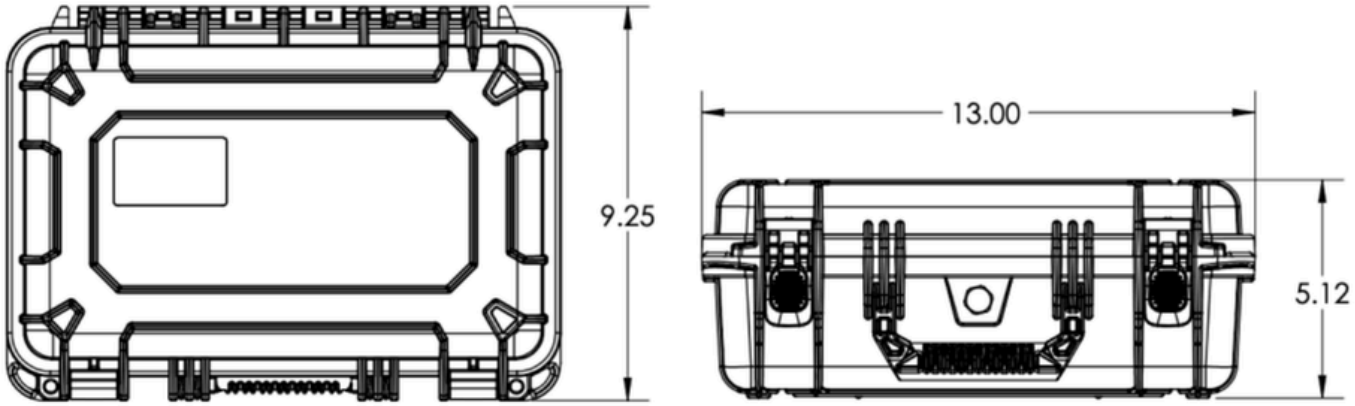


Figure 1: Boxer Case Blueprint

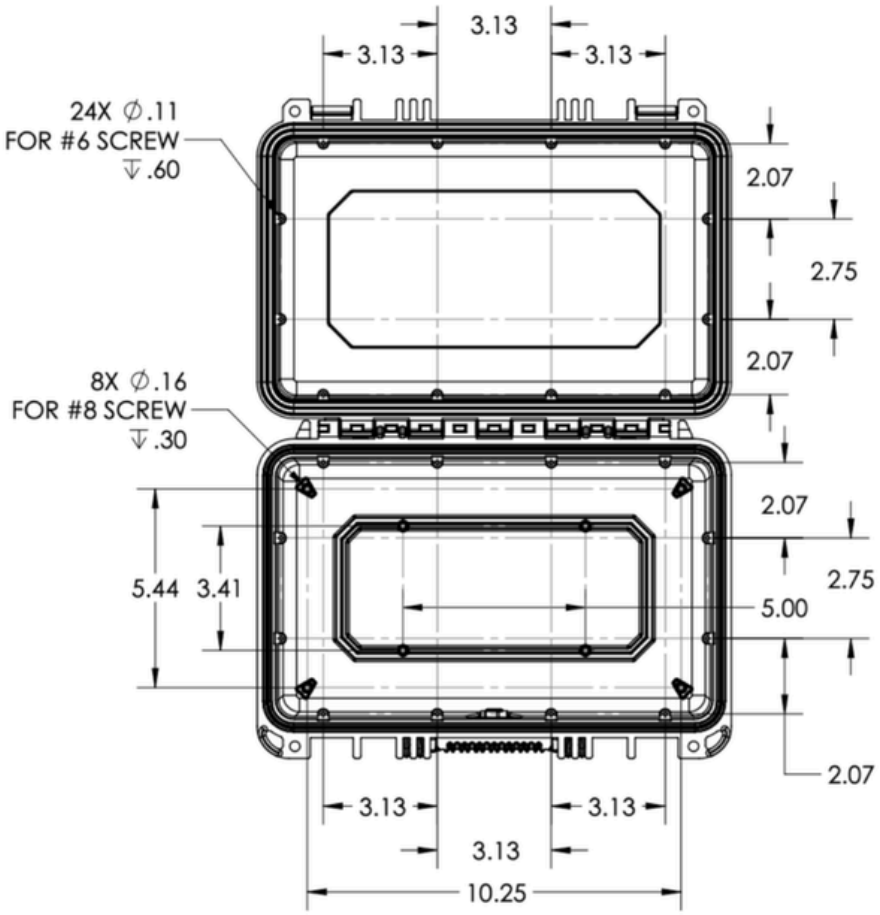


Figure 2: Boxer Case Additional Dimensions

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Electrical Specifications

ID	Port	Parameters	Typ.
Radiated Efficiency (%)	CELL - 1, 2, 3, 4	617 – 698 MHz	70
	CELL - 1, 2, 3, 4	698 – 894 MHz	75
	CELL - 1, 2, 3, 4	1710 - 2200 MHz	85
	CELL - 1, 2, 3, 4	2200 - 2700 MHz	80
	CELL - 1, 2, 3, 4	3400 - 4000 MHz	70
	CELL - 1, 2, 3, 4	5150 - 5925 MHz	85
	Wi-Fi - 1, 2, 3, 4	2400 - 2483.5 MHz	80
	Wi-Fi - 1, 2, 3, 4	4900 - 5900 MHz	85
Peak Gain (dBi)	CELL - 1, 2, 3, 4	617 – 698 MHz	2.5
	CELL - 1, 2, 3, 4	698 – 894 MHz	3.5
	CELL - 1, 2, 3, 4	1710 - 2200 MHz	6
	CELL - 1, 2, 3, 4	2200 - 2700 MHz	5
	CELL - 1, 2, 3, 4	3400 - 4000 MHz	5
	CELL - 1, 2, 3, 4	5150 - 5925 MHz	8
	Wi-Fi - 1, 2, 3, 4	2400 - 2483.5 MHz	5
	Wi-Fi - 1, 2, 3, 4	4900 - 5900 MHz	7
Return Loss 50 Ω (dB)	CELL - 1, 2, 3, 4	617 - 849 MHz	10
	CELL - 1, 2, 3, 4	849 - 894 MHz	8
	CELL - 1, 2, 3, 4	1710 - 2700 MHz	14
	CELL - 1, 2, 3, 4	3400 - 4000 MHz	8
	CELL - 1, 2, 3, 4	5150 - 5925 MHz	9
	Wi-Fi - 1, 2, 3, 4	2400 - 2483.5	10
	Wi-Fi - 1, 2, 3, 4	4900 - 5900 MHz	10
Isolation (dB)	CELL	617 - 698 MHz	7
	CELL	698 - 894 MHz	8
	CELL	1710 - 2200 MHz	18
	CELL	2200 - 2700 MHz	20
	CELL	3400 - 4000 MHz	22
	CELL	5150 - 5925 MHz	27
	Wi-Fi	2400 - 2483.5 MHz	15
	Wi-Fi	4900 - 5900 MHz	22

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Polarization (dBi)	CELL, Wi-Fi		Linear
Max Input Power (Watts)	CELL, Wi-Fi		5
RF Connectors	CELL Wi-Fi		SMA(M) RP-SMA(M)
RF Cable Type	CELL,Wi-Fi GPS		RG-316 LSR100

- Isolation, return loss, and peak gain do not include cable loss from 13 inch cables supplied.
- SMA connectors have a max torque of 3–5-inch lbs.
- Electrical specifications based on antenna mounted in the lid of the plastic enclosure.
- *Router 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.
- Please see Ordering Guide regarding Battery Inclusion.

GNSS Electrical Specifications

ID & Unit	*Port*	*Parameters*	*Typ.*
Antenna + Preamp Gain (dBic)	GPS	L1: 1563 - 1587 L5: 1164 - 1189 MHz	28 26
Polarization	GPS		RHCP
GNSS Preamp Voltage (V)	GPS		3 to 5
GNSS Preamp Current (mA)	GPS		< 45mA
RF Connector	GPS		SMA (M)
RF Cable Type	GPS		LSR100

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Part Number Key & Ordering Guide

(Part number example for a 7:1 Boxer antenna: PRO7BX4L2WD)		
Description	***Abbreviation***	***Part Number***
All PRO Series	PRO	PRO
Number of Elements in Housing/Configuration	7:1	PRO7
Antenna Abbreviation for Boxer	BX	PRO7BX
Number of Cellular Elements	#L	PRO7BX4L
Number of Wi-Fi Elements	#W	PRO7BX4L2W
L1/L5 Dual Band GPS Element: D	D	PRO7BX4L2WD
Optional IQ Version - Includes the options listed	-IQ	PRO7BX4L2WD-IQ
For customizations, such as Connector Type, Cable Length, Configuration, and Branding please reach out to Parsec at sales@parsec-t.com		

Maximum Configurations

Configurations	***Part Number***	***Description***
7:1	PRO7BX4L2WD-IQ	4 Cellular, 2 Wi-Fi, L1/L5 Dual Band GPS, Black Case with Antenna Build into Lid with Custom Parsec Battery (see antenna options for description)

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Case Options

Description	*PRO7BX4L2WD*	*-IQ Version*
Antenna	Yes	Yes
Fan	No	Yes
Vent	No	Yes
USB-C Connector	No	Yes
2x RJ-45 Connectors	No	Yes
Top Router Mount Plate	No	Yes
Custom Parsec Battery Bracket	No	Yes (Installed)
Custom Parsec Battery	No	Yes (Installed)
Battery Charge/Status Indicator Light	No	Yes
External Battery Switch	No	Yes

Hardware Accessories

Accessories	**Part Number**
RJ-45 Adapter	PTA0415
USB-A Panel Mount	PTA0448
USB-C Connector	PTA0633
Replacement Parts	
Router Mounting Screws, Qty. 15	PTA1028
SMA Wrench, Key Chain	PTA0194
Service: Router Installation	PTA-Install-185

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