



Parsec MegaReachTM

External Antenna Dock for MegaConnectTM

In Partnership with Sonim and AT&T FirstNET



Maximum Reach. Maximum Power

The MegaReach™ redefines cellular connectivity. It is a rugged, low-profile 4:1 MIMO cellular and Band 14 external antenna engineered for maximum performance. This omni-directional powerhouse delivers reliable connectivity across all major North American cellular bands.



More Than An
Accessory.

12X Transmit Power
2X Signal Strength



Sonim MegaConnect™

Built as a dock for the MegaConnect™ and developed in partnership with Sonim and AT&T FirstNet



Maximum Reach. Maximum Power

More Than An Accessory.

Connectivity Game-Changer

Featuring **Parsec's patented antenna technology**, the MegaReach™ extends the battery life while also enhancing HPUE connectivity with the farthest reach of any cellular antenna technology available today. Its high-performance integrated antennas supercharge Band 14.



Delivering Up To
12X Transmit Power **2X** Signal Strength
Compared to Standalone Devices.

Maximum Reach. Maximum Power

Thermal Management Focus

Parsec's **NEW** Cool Tray Technology

The MegaReach™ sets itself apart **with built-in thermal control** that prevents overheating and throttling. Even in extreme heat or direct sunlight, it delivers consistent signal strength and full-speed performance.



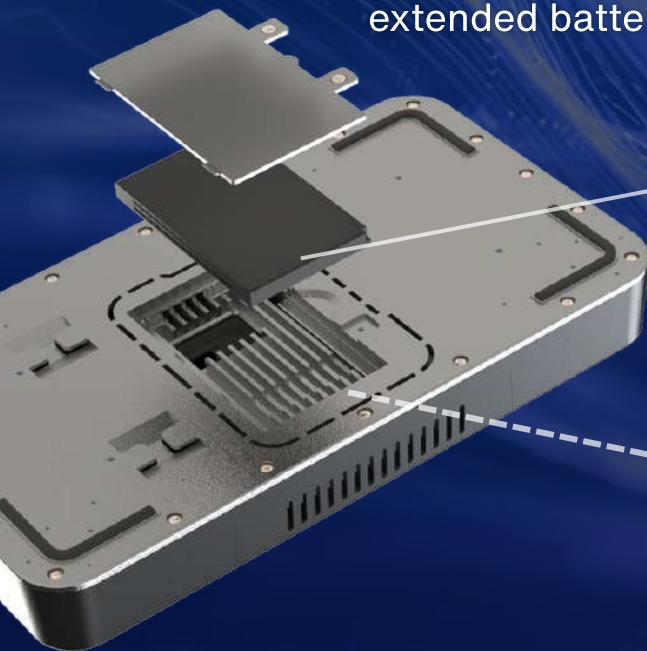
2 Fans



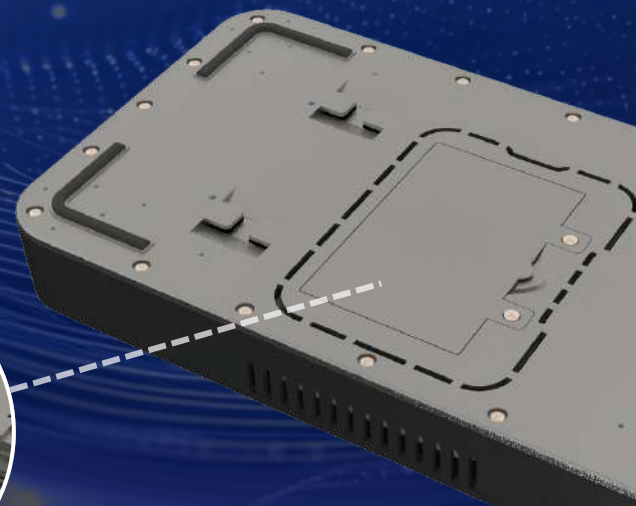
Switch for Fans

Extends the Battery Life

Thermal control cuts power strain. That means extended battery life without sacrificing speed



MegaConnect™
Battery



Plus Conduction and Convection Cooling all-in one = **Cool Tray Technology**

Engineered With You in Mind

Applications



First Responders



Police & Fire



Government Buildings



Healthcare Facilities



Remote Sites



Clamp Mesh Design to
Hook onto Backpack



**Primary or Failover
Connectivity**

Why Choose the MegaReach™

From emergency responders to enterprise teams, the MegaReach™ delivers:

- 12X Transmit Power
- 2X Signal Strength
- Parsec's Patented Antenna Technology
- Cool Tray Technology
- High-performance Band 14 connectivity
- Extended device battery life
- Rugged design
- Mission-ready.



Specification Overview

PRO MegaReach Series	
Applications	First Responders, On-The-Go-Network, Government Facilities
Configurations	4:1 - 2 CELL, Band 14, GPS
Categories:	Public Safety, Government, Hot Spot
Antennas Included:	Cellular, Band 14, GPS
Antenna Pattern:	Omni-Directional
Available Colors:	Black
Cable Type:	1.5 DS
Standard Connector Options	TS9(M)

Specifications

Frequencies			
4G/5G Cellular	617-894 MHz 1710-2700 MHz 3400-4000 MHz 5150-5925 MHz	Band 14 HPUE	758-798 MHz
		GPS	1575.42
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, n66	
EMEA		B1, B3, B7, B20, B28, B42, B43, B46 n1, n3, n28, n77, n78	
Mechanical		Enviromental	
Dimension	13.5 inch length 1.88 inch height 7.5 inch width	Operating Temperature	-20 °C to 55°C
Mounting	1.5 in	Ingress Protection	IP50
Cable Type	CELL, B14, GPS: 1.5 DS		
Connectors	TS9(M)	Radome Material	Plastic with UV Additive
Router Options	Sonim MegaConnect™		
For customizations, such as Custom Branding and Custom Colors, please reach out to Parsec at sales@parsec-t.com.			

Electrical Specification

ID	Port	Parameters	Typ.
Radiated Efficiency (%)	CELL 1 thru 2	617 - 698 MHz	50
	CELL 1 thru 2	698 - 798 MHz	60
	CELL 1 thru 2	798 - 894 MHz	65
	CELL 1 thru 2	1710 - 2110 MHz	75
	CELL 1 thru 2	2110 - 2700 MHz	80
	CELL 1 thru 2	3300 - 4000 MHz	65
	CELL 1 thru 2	5150 - 4925 MHz	60
	B14	758 - 798 MHz	60
Peak Gain (dBi)	CELL 1 thru 2	617 - 698 MHz	2
	CELL 1 thru 2	698 - 798 MHz	3
	CELL 1 thru 2	798 - 894 MHz	4
	CELL 1 thru 2	1710 - 2110 MHz	4
	CELL 1 thru 2	2110 - 2700 MHz	4.5
	CELL 1 thru 2	3300 - 4000 MHz	5
	CELL 1 thru 2	5150 - 4925 MHz	4.5
	B14	758 - 798 MHz	2.5
Return Loss 50 Ω (dB)	CELL 1 thru 2	617 - 698 MHz	8.5
	CELL 1 thru 2	698 - 798 MHz	12
	CELL 1 thru 2	1710 - 2110 MHz	11
	CELL 1 thru 2	1850 - 2700 MHz	12
	CELL 1 thru 2	3300 - 4000 MHz	7
	CELL 1 thru 2	3450 - 4000 MHz	9.5
	CELL 1 thru 2	5150 - 4925 MHz	8
	B14	758 - 798 MHz	12
Isolation (dB)	CELL	617 - 698 MHz	9.5
	CELL	698 - 894 MHz	11
	CELL	1710 - 2110 MHz	18
	CELL	2110 - 2700 MHz	22
	CELL	3300 - 4000 MHz	20
	CELL	5150 - 5925 MHz	25
	B14 to CELL	758 - 798 MHz	16
Polarization (dBi)	CELL, B14		Linear
Max Input Power (Watts)	CELL, B14		5
RF Connectors	CELL, B14		TS9(M)
RF Cable Type	CELL, B14		1.5 QDS
- Isolation, return loss, and peak gain do not include cable loss - Electrical specification based on antenna mounted away from other conductors			

Ordering Guide

Maximum Configurations

<i>Config.</i>	<i>Part Number</i>	<i>Description</i>
4:1	PRO4MR2L14GB	2 Cellular, Band 14, GPS Black

Part Number Key

Part Number Example for a 4:1 MegaReach antenna Black: PRO4MR2L14GB

<i>Description</i>	<i>Abbreviation</i>	<i>Part Number</i>
All PRO Series	PRO	PRO
Number of Antenna in Housing/Configuration	4:1	PRO4
Antenna Abbreviation for MegaReach	MR	PRO4MR
Number of Cellular Elements	2L	PRO4MR2L
Band 14 Element	14	PRO4MR2L14
GPS Element	G	PRO4MR2L14G
Radome Color: B=Black	B	PRO4MR2L14GB
Customization options available: Custom Branding, Custom Colors, MOQ Applicable. Please contact us for more information at sales@parsec-t.com		

<i>Description</i>	<i>PRO4MR2L14GB</i>
Antenna	Yes
Ethernet Port	Yes
USB-C Port	Yes
Qty.2 Fans	Yes
Switch for Fans	Yes