



The Pug PRO series is a 2X2 MIMO cellular, up to 2x2 MIMO Wi-Fi and optional GPS, omni-directional fixed wireless antenna. The Pug is designed for high performance of kiosks, vending machines, ATMs, and POTS replacement. This new package is adhesive mount, magnetic mount, or panel mount. No drilling required.

This PRO series IP67-rated antenna is small enough to mount and perform at high efficiency on POTS replacement boxes and other equipment using a magnetic and adhesive base.

Patent Pending



1st  
to **5G**

Configurations 2:1 | 3:1 | 4:1



POTS Replacement | Primary IoT Network Solutions | Warehouse Network Solutions

### ***Versatile IoT Applications***

ATM, Kiosk, Vending, & POTS Replacement

### ***Primary IoT***

High Speed Warehouse Network Solution

### ***Easy Install***

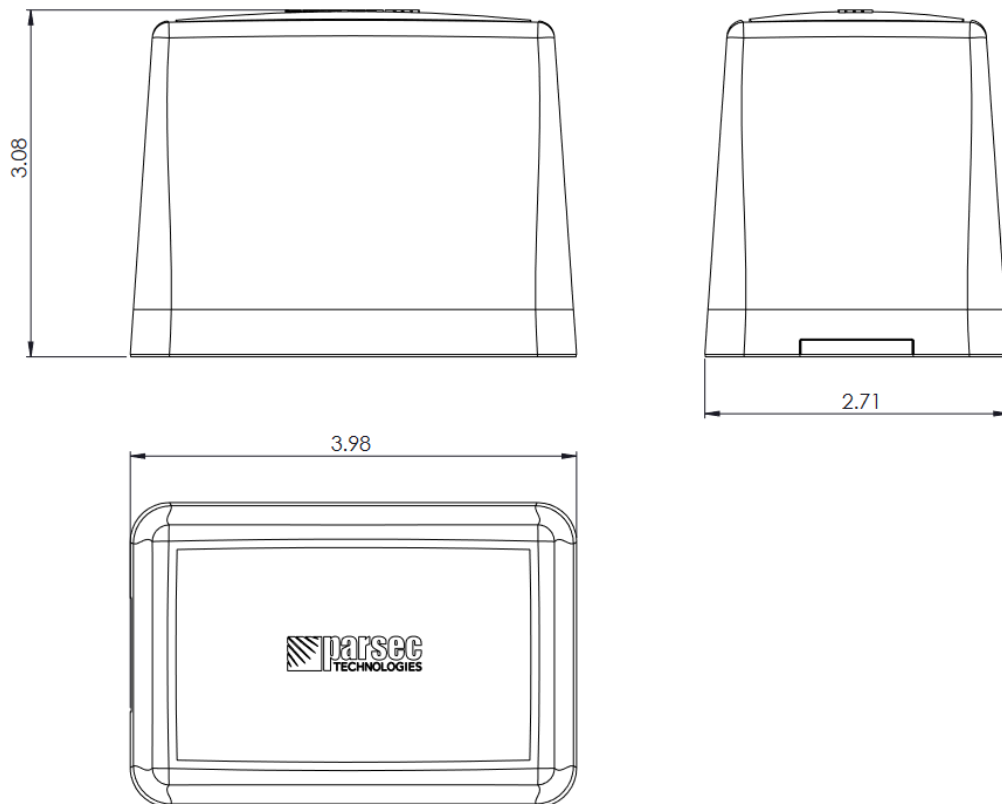
Magnetic & Adhesive Base

- 2X2 MIMO CELLULAR
- UP TO 2x2 MIMO WI-FI
- OMNI-DIRECTIONAL
- OPTIONAL GPS
- 600 MHz – 6 GHz
- 3.98 in X 2.71 in X 3.08 in
- MAXIMUM 4:1 CONFIGURATION

## Specifications

| <b>Frequencies</b>     |  |                              |                                      |
|------------------------|--|------------------------------|--------------------------------------|
| <b>4G/5G Cellular</b>  | 617-894 MHz<br>1710-2700 MHz<br>3400-4000 MHz<br>5150-5925 MHz | <b>Wi-Fi</b>                 | 2400-2483.5 MHz<br>4900-5900 MHz     |
| <b>Mechanical</b>      |  | <b>Environmental</b>         |                                      |
| <b>Dimension</b>       | 3.98 inch X 2.71 inch<br>X 3.08 inch                           | <b>Operating Temperature</b> | -30 °C to 85°C OR<br>-22 °F to 180°F |
| <b>Mounting</b>        | Magnetic &<br>Adhesive Base                                    | <b>Ingress Protection</b>    | IP67 Waterproof                      |
| <b>RF Cable Length</b> | Choice of 3 or 6 ft Cable                                      |                              |                                      |

## Dimensions



## Product Images



## Electrical Specifications

| ID & Unit               | Port       | Parameters      | Typ. |
|-------------------------|------------|-----------------|------|
| Radiated Efficiency (%) | CELL 1, 2  | 617-698 MHz     | 60   |
|                         | CELL 1, 2  | 698-894 MHz     | 70   |
|                         | CELL 1, 2  | 1710-2700 MHz   | 65   |
|                         | CELL 1, 2  | 3300-4000 MHz   | 65   |
|                         | CELL 1, 2  | 5150-5925 MHz   | 70   |
|                         | Wi-Fi 1, 2 | 2400-2483.5 MHz | 75   |
|                         | Wi-Fi 1, 2 | 4900-5900 MHz   | 50   |

|  |             |                 |          |
|--|-------------|-----------------|----------|
| Peak Gain (dBi)  | CELL 1, 2   | 617-698 MHz     | 2        |
|  | CELL 1, 2   | 698-894 MHz     | 4        |
|  | CELL 1, 2   | 1710-2700 MHz   | 5        |
|  | CELL 1, 2   | 3300-4000 MHz   | 6        |
|  | CELL 1, 2   | 5150-5925 MHz   | 7        |
|  | Wi-Fi 1, 2  | 2400-2483.5 MHz | 7        |
|  | Wi-Fi 1, 2  | 4900-5900 MHz   | 7        |
| Return Loss 50Ω (dB)   | CELL 1, 2   | 617-698 MHz     | 6        |
|  | CELL 1, 2   | 698-894 MHz     | 9.5      |
|  | CELL 1, 2   | 1710-1915 MHz   | 8        |
|  | CELL 1, 2   | 1915-2700 MHz   | 4        |
|  | CELL 1, 2   | 3300-4000 MHz   | 6        |
|  | CELL 1, 2   | 5150-5925 MHz   | 4        |
|  | Wi-Fi 1, 2  | 2400-2483.5 MHz | 10       |
| Isolation (dB)   | Wi-Fi 1, 2  | 4900-5900 MHz   | 4        |
|  | CELL        | 698-894 MHz     | 7        |
|  | CELL        | 1710-1915 MHz   | 12       |
|  | CELL        | 1915-2700 MHz   | 15       |
|  | CELL        | 3300-4000 MHz   | 22       |
|  | CELL        | 5150-5925 MHz   | 30       |
|  | Wi-Fi       | 2400-2483.5 MHz | 12       |
| Polarization   | Wi-Fi       | 4900-5900 MHz   | 22       |
|  | CELL, Wi-Fi |                 | Linear   |
| Max Input Power (Watts)  | CELL, Wi-Fi |                 | 10       |
| RF Connectors  | CELL        |                 | SMA(M)   |
|  | Wi-Fi       |                 | RPSMA(M) |
| RF Cable Type  | CELL, Wi-Fi |                 | LSR100   |
| <ul style="list-style-type: none"> <li>Electrical Specifications based on antenna with a 2 ft X 2 ft external ground plane.</li> <li>Isolation, return loss, and peak gain does not include cable loss.</li> <li>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.</li> </ul> |             |                 |          |

## GNSS Electrical Specifications

| ID & Unit                    | Port | Parameters    | Typ.     |
|------------------------------|------|---------------|----------|
| Antenna + Preamp Gain (dBic) | GPS  | 1570-1581 MHz | 33       |
| Polarization                 | GPS  |               | RHCP     |
| Filter Rejection (dB)        | GPS  | 1625 MHz      | 12       |
| GNSS Preamp Voltage (mA)     | GPS  |               | 2.2 to 5 |
| GNSS Preamp Current (mA)     | GPS  |               | 5 to 15  |
| RF Connector                 | GPS  |               | SMA(M)   |
| RF Cable Type                | GPS  |               | LSR100   |

# Part Number Key

Part number example of a 4:1 Pug antenna, black: PRO4PG2LWG06B

| Description  | Abbreviation     | Part Number   |
|--|------------------|---------------|
| All PRO Series   | PRO              | PRO           |
| Number of Antennas in Housing/Configuration  | 4:1              | PRO4          |
| Antenna Abbreviation for Pug   | PG               | PRO4PG        |
| Number of CELL Elements  | #L               | PRO4PG2L      |
| Number of Wi-Fi Elements   | #W               | PRO4PG2LW     |
| Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)  | G                | PRO4PG2LWG    |
| Cable Length Measured in Feet: 01=1', 10=10'   | 01, 06, 10, etc. | PRO4PG2LWG06  |
| Radome Color - B for Black   | B                | PRO4PG2LWG06B |
| If SMA Connector, simply leave blank   |                  | PRO4PG2LWG06B |
| Custom connectors and cable kits are available. Please contact us for more information at <a href="mailto:sales@parsec-t.com">sales@parsec-t.com</a> . Cable options include up to 6 feet. |                  |               |

## Ordering Standard Antennas

| Config. | Part Number   | Description                                 |
|---------|---------------|---|
| 2:1     | PRO2GP2L03B   | 2 Cellular, 3 ft Cable, Black               |
|         | PRO2PG2L06B   | 2 Cellular, 6 ft Cable, Black               |
| 3:1     | PRO3PG2LG06B  | 2 Cellular, GPS, 6 ft Cable, Black          |
| 4:1     | PRO4PG2LWG06B | 2 Cellular, 1 Wi-Fi, GPS, 6 ft Cable, Black |

## Non-Standard Antennas

| Config. | Part Number   | Description                                 |
|---------|---------------|---|
| 3:1     | PRO3PG2LG03B  | 2 Cellular, GPS, 3 ft Cable, Black          |
| 4:1     | PRO4PG2L2W03B | 2 Cellular, 2 Wi-Fi, 3 ft Cable, Black      |
|         | PRO4PG2L2W06B | 2 Cellular, 2 Wi-Fi, 6 ft Cable, Black      |
|         | PRO4PG2LWG03B | 2 Cellular, 1 Wi-Fi, GPS, 3 ft Cable, Black |

## *Additional Hardware Accessories*

| <i>Accessory</i>      | <i>Part Number</i> |
|-----------------------|--------------------|
| SMA Wrench, Key Chain | PTA0194            |



**Parsec Antennas**

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