

The Akita Lite PRO series antenna is a 5G, 4X4 MIMO cellular, omni-directional antenna with optional GPS. The Akita Lite is designed for high performance of 600 MHz to 6 GHz and C-Band frequencies for IoT and enterprise network solutions. The Akita Lite is the same exact antenna as the Akita but now with ultra-low loss, lightweight and more flexible LSR200 cables for a more cost-effective network solution and easy installation.

This PRO series, IP54 rated antenna can be mounted indoor, outdoor, pole mounted, or wall mounted to perform at high efficiency for retail, warehouse, office, RVs, and residential homes.

Patent Pending



1st
to 5G

Configurations 4:1 | 5:1

Primary & Failover | Video Streaming | Remote Monitoring



Future Proof

Network Upgrade for 5G & C-Band

High Data Speeds

C-Band Design with High Gain

Durable

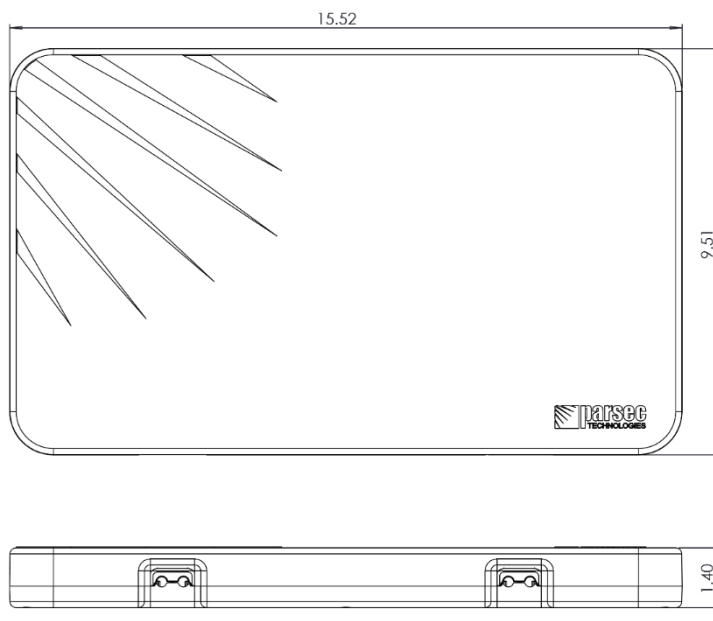
IP54 Rated & High Wind Resistance

- 4X4 MIMO CELLULAR
- C-BAND
- WALL, POLE, OR PANEL MOUNT
- OMNI-DIRECTIONAL
- 600 MHz - 6 GHz
- 15.5 in X 9.5 in X 1.4 in

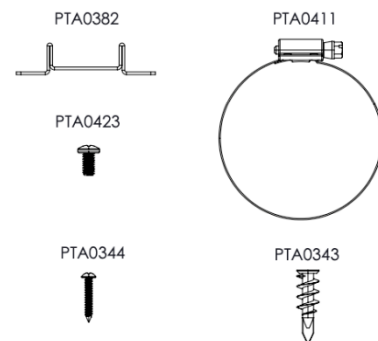
Specifications

| Frequencies | | | |
|--|---|--|--------------------------------------|
| 4G/5G Cellular | | 617-663 MHz 663-930 MHz 930-1427 MHz 1427-1915 MHz 1915-6000 MHz | |
| 4G/5G Bands | | | |
| North America | B2, B4, B5, B7, B12, B14, B17, B24, B25, B26, B29, B30, B41, B46, B48, B66, B71 n2, n5, n12, n25, n26, n41, n48, n66, n71, n77 | | |
| EMEA | B1, B3, B7, B8, B20, B28, B32, B42, B43, B46 n1, n3, n8, n28, n77, n78 | | |
| Mechanical | | Environmental | |
| Dimensions | 15.5 inch X 9.5 inch X 1.4 inch Thickness Excluding Bracket | Operating Temperature | -30 °C to 85°C OR -22 °F to 180°F |
| Mounting | Bracket with screws to a non-metallic surface Pole mount for 2.5 -3.5 inch mast diameter | Ingress Protection | IP54 Outdoor |
| RF Cable Length | 15 ft Cables | | |
| <ul style="list-style-type: none">Pole mount consists of two worm drive clamps and related hardware. | | | |

Dimensions



Hardware Accessories Included



Product Images



Electrical Specifications

| ID & Unit | Port | Parameters | Typ. |
|-------------------------|---------------|---------------|------|
| Radiated Efficiency (%) | CELL 1 thru 4 | 617-663 MHz | 70 |
| | CELL 1 thru 4 | 663-930 MHz | 80 |
| | CELL 1 thru 4 | 930-1427 MHz | 70 |
| | CELL 1 thru 4 | 1427-1915 MHz | 85 |
| | CELL 1 thru 4 | 1915-6000 MHz | 70 |
| | GPS | 1575.42 MHz | 80 |
| Peak Gain (dBi) | CELL 1 thru 4 | 617-663 MHz | 3 |
| | CELL 1 thru 4 | 663-930 MHz | 4 |
| | CELL 1 thru 4 | 930-1427 MHz | 2 |
| | CELL 1 thru 4 | 1427-1915 MHz | 5 |
| | CELL 1 thru 4 | 1915-6000 MHz | 5 |
| Return Loss 50Ω (dB) | CELL 1 thru 4 | 617-663 MHz | 10 |
| | CELL 1 thru 4 | 663-930 MHz | 7 |
| | CELL 1 thru 4 | 930-1427 MHz | 10 |
| | CELL 1 thru 4 | 1427-1915 MHz | 7 |

| | | | |
|--|----------------------|------------------------------|----------------|
| | CELL 1 thru 4 GPS | 1915-6000 MHz 1575.42 MHz | 6 12 |
| Isolation (dB) | CELL 1, 2 | 617-663 MHz | 15 |
| | CELL 1, 2 | 663-930 MHz | 20 |
| | CELL 1, 2 | 930-1427 MHz | 19 |
| | CELL 1, 2 | 1427-1915 MHz | 18 |
| | CELL 1, 2 | 1915-6000 MHz | 20 |
| | CELL Adjacent | 617-663 MHz | 10 |
| | CELL Adjacent | 663-930 MHz | 11 |
| | CELL Adjacent | 930-1427 MHz | 17 |
| | CELL Adjacent | 1427-1915 MHz | 15 |
| | CELL Adjacent | 1915-6000 MHz | 16 |
| Polarization (dBi) | CELL GPS | | Linear RCHP |
| Max Input Power (Watts) | CELL | | 10 |
| RF Connectors | CELL | | SMA(M) |
| | GPS | | SMA(M) |
| RF Cable Type | CELL | | LSR200 |
| | GPS | | LSR100 |
| <ul style="list-style-type: none"> Isolation, return loss, and peak gain does not include cable loss. Performance will be degraded if the antenna is mounted close to wiring or metal wall studs. 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. | | | |

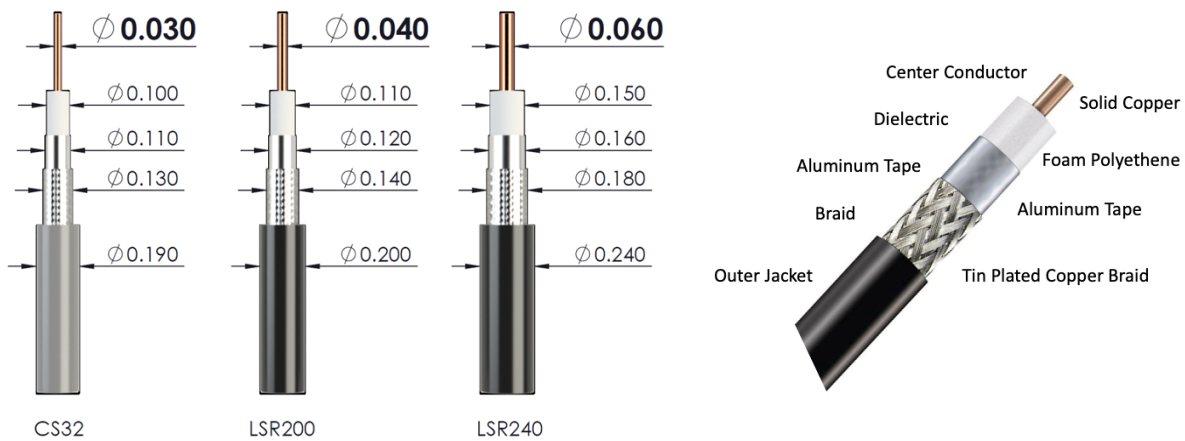
Part Number Key

Part number example of a 4:1 Akita Lite antenna: PRO4AL4L15W

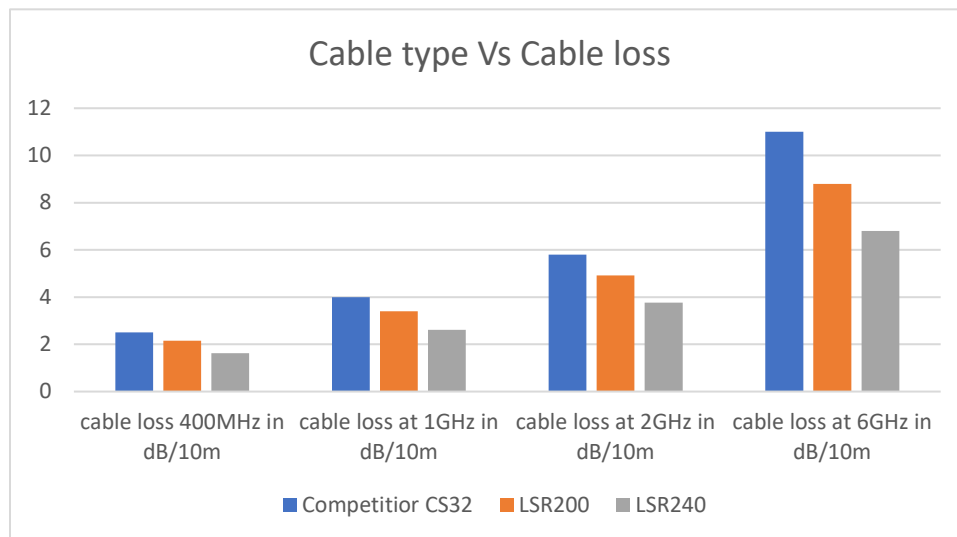
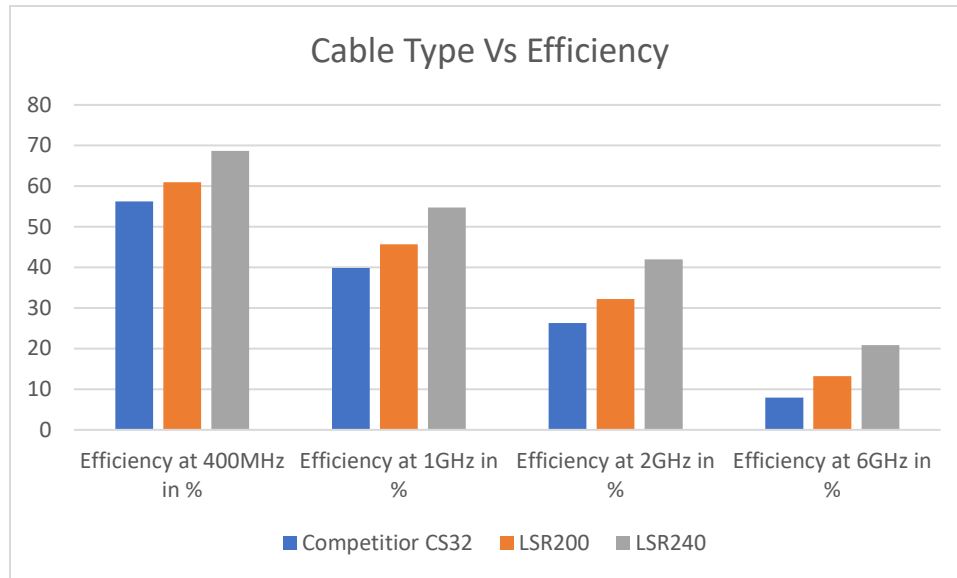
| Description | Abbreviation | Part Number |
|--|---------------|-----------------|
| All PRO Series | PRO | PRO |
| Number of Antennas in Housing/Configuration | 4:1 | PRO4 |
| Antenna Abbreviation for Akita Lite | AL | PRO4AL |
| Number of CELL Elements | #L | PRO4AL4L |
| Cable Length Measured in Feet: 01=1', 15=15' | 01, 15, etc., | PRO4AL4L15 |
| Radome Color - W for White & B for Black | W | PRO4AL4L15W |
| SMA connector, simply leave blank | | PRO4AL4L15W |
| Additional Options | | |
| N Type Female Connector | -NF | PRO4AL4L15W-NF |
| SMA (F) to TS9 Adapters | -TS9 | PRO4AL4L15W-TS9 |
| Custom connectors and cable kits are available. Please contact us for more information at sales@parsec-t.com . | | |

Cable Comparison

Cable choice for 5G (617 MHz to 6 GHz) is now more important than ever with cellular bands going beyond 3 GHz, the loss of all cable is more magnified in 5G at the higher bands above 3GHz. This now makes the choice of antenna cable as important as the antenna design and material used in the actual antenna elements. In the chart below, we're showing the difference between cables based on the thickness of the center conductor. The thicker the center conductor, the lower the loss, the higher the performance. Remember, the cable carries your signal!



| Efficiency Per Cable Type | | Competitor CS32 Cables | Akita Lite LSR200 | Akita LSR240 |
|--|---------|---------------------------|----------------------|-----------------|
| Efficiency % 10 Meters Cable Length | 400 MHz | 56.2 | 60.9 | 68.7 |
| | 1 GHz | 39.8 | 45.7 | 54.7 |
| | 2 GHz | 26.3 | 32.2 | 42 |
| | 6 GHz | 7.94 | 13.2 | 20.9 |
| Higher the efficiency the better the cable. | | | | |
| Attenuation Cable Type | | Competitor CS32 Cables | Akita Lite LSR200 | Akita LSR240 |
| Attenuation dB/10m | 400 MHz | 2.5 | 2.15 | .84 |
| | 1 GHz | 4 | 3.4 | 1.35 |
| | 2 GHz | 5.8 | 4.92 | 1.96 |
| | 6 GHz | 11 | 8.8 | 3.62 |
| Attenuation is a decrease in the power of a signal or signals. Every 3 dB of attenuation lowers your signal by 50%. The Akita with LSR240 has the least amount of loss out of all three. But the new Akita Lite is the second best choice. | | | | |



Ordering Standard Antennas

| Configurations | Part Number | Description |
|----------------|----------------|---|
| 4:1 | PRO4AL4L15W | 4 Cellular, 15 ft Cable, White |
| | PRO4AL4L01W | 4 Cellular, 1 ft Cable, White |
| | PRO4AL4L01W-NF | 4 Cellular, 1 ft Cable, White, N Type Female Connectors |

Non-Standard Antennas

| Configurations | Part Number | Description |
|----------------|-----------------|--|
| 5:1 | PRO5AL4LG15W | 4 Cellular, GPS, 15 ft Cable, White |
| | PRO5AL4LG01W | 4 Cellular, GPS, 1 ft Cable, White |
| | PRO5AL4LG01W-NF | 4 Cellular, GPS, 1 ft Cable, White, N Type Female Connectors |

Additional Hardware Accessories

| Accessory | Part Number |
|---|----------------|
| Additional Pole Mount Kit | PTA0532 |
| Additional Wall Mount Kit | PTA0459 |
| Lightning Arrestor – SMA(F) to SMA(F) | PTA0476 |
| Lightning Arrestor – N(F) to N(M) | PTA0736 |
| SMA Wrench, Key Chain | PTA0194 |
| Service: Cable Sleeving (priced per ft) | Cable Sleeving |
| SMA (F) to TS9 Adapters | PTA0797 |



SMA (F) to TS9 Adapters



Parsec Antennas
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