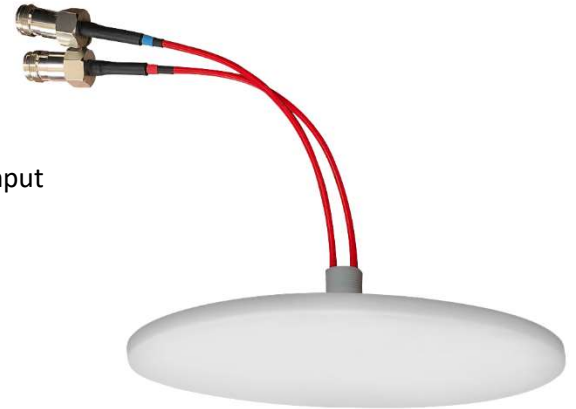


SI500A Series Low Profile Ceiling Mount MIMO 5G DAS Antenna, 617-8500 MHz

- Future proof ultra wideband indoor omni antenna
- Low profile radome minimizes aesthetic impact
- Superior VSWR across the band for top performance
- <-153 dBc Low PIM rating for 5G/LTE applications
- Dual port with outstanding isolation for MIMO and increased throughput
- Public-safety grade design compliant with NFPA safety codes



The SI500 two-port MIMO DAS antennas series is a compact and unobtrusive solution designed for boosting wireless coverage within buildings. Operating over an ultra-wide frequency range of 617 MHz to 8500 MHz, it supports a multitude of wireless communications, including 5G networks, legacy systems, Wi-Fi 6E, future 5G bands, and IoT systems, ensuring uninterrupted indoor connectivity.

This antenna's MIMO technology enhances data throughput and link reliability, thereby optimizing signal quality and network performance, particularly critical in dense indoor environments. With its high gain and low VSWR, it guarantees efficient signal propagation and reception.

Despite its high-performing capabilities, the antenna maintains a low-profile design, easily integrating into various architectural aesthetics and minimizing visual intrusion. Easy to install, this MIMO DAS antenna is a valuable component for establishing robust, reliable, and high-speed wireless communication networks within complex indoor spaces.

The antenna excels at stable low PIM performance across the bands. By reducing the PIM, the signal quality, data speed, network capacity, and the efficiency of the system - particularly critical in dense, multi-frequency environments like in-buildings - are significantly enhanced.

| Region | United States | Europe, Middle East, and Africa | Canada, Caribbean, and Latin America | Asia-Pacific |
|-----------------------------|----------------------|---------------------------------|--|---------------------------------|
| Telephone | 1 800 263 3275 | +1 905 727 0165 ext. 232 | Canada: 1 905 726 7676 International: +1 905 726 7676 | +1 905 727 0165 ext. 287 |
| E-mail | salesusa@sintech.com | salesemea@sintech.com | salescan@sintech.com | salesasia@sintech.com |
| Product Specification Sheet | | SI500A In-building Antennas | | Issue: A3.3 Dated: 2-23-2024 |

| ELECTRICAL SPECIFICATIONS | | | | | | | | | |
|------------------------------------|---------|------------------------------------|---------|-----------|------------|-----------|-----------|-----------|-----------|
| Frequency Range | | 617 - 8500 MHz | | | | | | | |
| Frequency Sub-range (MHz) | | 617-698 | 698-960 | 1350-1550 | 1690-2700 | 3300-4200 | 4800-5945 | 5945-7125 | 7125-8500 |
| Peak Gain (dBi) | Average | 2 | 3 | 2.9 | 3.9 | 4.5 | 4.7 | 4.1 | 4.6 |
| | Peak | 2 | 3.3 | 3.3 | 5.5 | 5.5 | 5.5 | 4.8 | 5.9 |
| VSWR | Average | 1.6:1 | 1.6:1 | 1.4:1 | 1.5:1 | 1.5:1 | 1.5:1 | 1.6:1 | 1.6:1 |
| | Max | 1.7:1 | 1.7:1 | 1.5:1 | 1.65:1 | 1.65:1 | 1.7:1 | 1.9:1 | 2.0:1 |
| PIM, 3rd Order for 2x20 W Carriers | | ≤ -153 dBc | | - | ≤ -153 dBc | | - | - | - |
| Isolation (dB) | Average | 15 | 16 | 20 | 22 | 35 | 35 | 35 | 35 |
| | Min | 14 | 15 | 17 | 16 | 28 | 28 | 30 | 30 |
| Impedance | | 50 Ω | | | | | | | |
| Polarization | | Linear Horizontal | | | | | | | |
| Pattern | | Omni | | | | | | | |
| Max Power | | 50 Watts per port | | | | | | | |
| Number of Connectors | | 2 ports, 4.3-10 Female or N-Female | | | | | | | |

| MECHANICAL SPECIFICATIONS | | | | | | | | | |
|---------------------------|--|---|--|--|--|--|--|--|--|
| Diameter | | Ø 230 mm (Ø 9.06 in) | | | | | | | |
| Height | | 10 mm (0.4 in) | | | | | | | |
| Net Weight | | < 0.45 kg (1 lbs) | | | | | | | |
| Radome Color | | White | | | | | | | |
| Radome Material | | PP, UL94-V0/LSZH/UV-resistant | | | | | | | |
| Pigtail | | Plenum rated | | | | | | | |
| Pigtail Length (nominal) | | 12" / 30 cm | | | | | | | |
| Mounting | | Fasteners included for mounting on ceiling tile | | | | | | | |
| Material Compliance | | RoHS, REACH | | | | | | | |

| ENVIRONMENTAL SPECIFICATIONS | | | | | | | | | |
|------------------------------|--|---------------------------------|--|--|--|--|--|--|--|
| Operating Environment | | Indoor | | | | | | | |
| Operating Temperature | | -40°C to +75°C (-40° to +140°F) | | | | | | | |
| Operational Humidity | | ≤ 95% | | | | | | | |

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