



Sierra Wireless Antenna – 6-in-1 Dome 5G

The 6-in-1 Dome has been tested and certified to operate with AirLink LTE routers and gateways. It has a low profile design that contains six isolated high performance antenna elements in a single housing for optimal coverage; two ultra-wideband elements spanning 617-960/1710-6000MHz support MiMo at LTE and 5G NR frequencies; a high performance (advanced filtering) GNSS antenna with an integrated 26dB gain LNA, and three dualband 2.4/5GHz Wi-Fi elements that provide 3x3 MiMo Wi-Fi.

The antenna is ground plane independent, and maintains a high level of performance even when mounted on a non-metallic surface.

| | | Specification | |
|--------------------------|----------------|---------------------------------|---------|
| PART NO. | | 6001363 (White)/6001364 (Black) | |
| ELECTRICAL DATA | | | |
| Frequency Range | Cellular | 617-960/1710-6000 MHz | |
| | Wi-Fi | 2.4/4.9-6GHz | |
| Operational Bands | Cellular | 2G/3G/4G LTE/5G NR Sub6 | |
| | Wi-Fi | 2.4/5.0GHz Wi-Fi | |
| Peak gain: Isotropic* | Cellular | 617-960MHz | 5dBi |
| | | 1710-3800MHz | 9dBi |
| | Wi-Fi | 4900-6000MHz | 10dBi |
| | | 2.4/4.9-6.0GHz | 8/10dBi |
| Typical Efficiency | Cellular | > 70% | |
| | Wi-Fi | > 80% | |
| Isolation | Cellular | > 12dB | |
| | Wi-Fi | > 20dB | |
| Correlation Co-efficient | Cellular/Wi-Fi | < 0.1 | |
| Polarisation | | Vertical | |
| Impedance | | 50Ω | |

* Simulated off a groundplane and does not include cable attenuation

| | | Specification |
|---------------------------------------|-------------|-----------------------------|
| GPS/GNSS DATA | | |
| Frequency Range | | 1562-1612MHz |
| VSWR | | <2:1 ± 4MHz |
| Typical Noise Figure | | -2.7dB |
| Gain: LNA | | 26dB |
| Notch Filter Rejection @787MHz | | 23dBm |
| Operating Voltage | | 3-5V DC |
| Approval | | E11 |
| Current | | <15mA |
| MECHANICAL DATA | | |
| Dimensions | Height | 75mm (3") |
| | Diameter | 180mm (7.1") |
| Operating Temp | | -40° / +80°C (-40° / 176°F) |
| Material | | ASA & Diecast Aluminium |
| Colour | | Black/White |
| Ingress Protection | | IP69K |
| MOUNTING DATA | | |
| Mounting Type | | Bolt Mount |
| Mounting Hole | | 19mm (3/4") |
| CABLE DATA | | |
| Cell / LTE Cables | Type | C32 |
| | Length | 5m (16ft) |
| | Termination | SMA Plug |
| GPS Cable | Type | CS29 |
| | Length | 5m (16ft) |
| | Termination | SMA Plug |
| Wi-Fi Cables | Type | CS32 |
| | Length | 5m (16ft) |
| | Termination | RP-SMA Plug |

About Sierra Wireless

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is a world leading IoT solutions provider that combines devices, network services, and software to unlock value in the connected economy. Companies globally are adopting 4G, 5G, and LPWA solutions to improve operational efficiency, create better customer experiences, improve their business models, and create new revenue streams. Sierra Wireless works with its customers to develop the right industry-specific solution for their IoT deployments, whether this is an integrated solution to help connect edge devices to the cloud, a software/API service to manage processes with billions of connected assets, or a platform to extract real-time data to improve business decisions. With more than 25 years of cellular IoT experience, Sierra Wireless is the global partner customers trust to deliver them their next IoT solution.

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