



## Sierra Wireless AirLink® Antenna: 3-in-1 Rail

### AirLink® Antenna: 3-in-1 Rail

Incorporating a DC grounded element operating wideband across all frequencies from 698 to 6000MHz and GNSS, 3-in-1 Rail antenna is a high performance housed in a high impact, weatherproof flame retardant Ultem.

EN50155 approved, this antenna is specially designed for use on trains, trams and buses.

|   |                | Specification  |
|---|----------------|--|
| <b>PART NO.</b>                         |                | 6001202  |
| <b>ELECTRICAL DATA</b>                  |                |  |
| <b>Frequency Range</b>                  | Elements 1 & 2 | 698-960/1710-2700/4900-6000                                  |
|   | Element 3      | 1562-1612MHz   |
| <b>Operational Bands</b>                | Elements 1 & 2 | 2G/3G/4G LTE   |
|   | Element 3      | GPS/GLONASS/Galileo/BeiDou                                   |
| <b>Peak gain: Isotropic<sup>1</sup></b> | Elements 1 & 2 | 5dBi (698-960MHz), 7dBi (1710-2170MHz), 10dBi (4.9-6.0GHz)   |
| <b>VSWR<sup>2</sup></b>                 | Elements 1 & 2 | <2.5:1   |
| <b>Isolation<sup>2</sup></b>            |                | > 10dB   |
| <b>Polarisation</b>                     |                | Vertical   |
| <b>Pattern</b>                          |                | Omni-directional   |
| <b>Impedance</b>                        |                | 50Ω  |
| <b>Max Input Power</b>                  |                | 60W  |
| <b>GPS/GNSS DATA</b>                    |                |  |
| <b>Frequency Range</b>                  | Element 3      | 1562-1612MHz   |
| <b>VSWR</b>                             |                | <2:1 ± 4MHz  |
| <b>Gain: LNA</b>                        |                | 26dB   |
| <b>Polarisation</b>                     |                | Right Hand Circular  |
| <b>Operating Voltage</b>                |                | 3-5V DC (fed via coax)                                       |
| <b>Current</b>                          |                | 15mA   |
| <b>Approvals</b>                        |                | EN 301 489-1 V1.8.1   EN301 489-3 V1.6.1   EN 50121-3-2:2015 |

|                           |             | Specification  |
|---------------------------|-------------|--|
| <b>MECHANICAL DATA</b>    |             |  |
| <b>Dimensions</b>         | Height      | 110mm (4.33")  |
|                           | Length      | 260mm (10.23")   |
|                           | Width       | 87mm (3.42")   |
| <b>Operating Temp</b>     |             | -40° / +80°C (-40° / 176°F)                            |
| <b>Material / Rating</b>  |             | Ultem 1000 / V0 (UL 94)                                |
| <b>Material</b>           |             | Cast Aluminium (Corrosion Protected and Powder Coated) |
| <b>Colour</b>             |             | Black  |
| <b>Weight</b>             |             | 1310g  |
| <b>Ingress Protection</b> |             | IP67 (Report No. 48883)                                |
| <b>MOUNTING DATA</b>      |             |  |
| <b>Mounting Type</b>      |             | 4 x Mounting Holes to Suit M12 Bolts                   |
| <b>CABLE DATA</b>         |             |  |
| <b>Cell</b>               | Cable       | CS29   |
|                           | Length      | 6m (20ft)  |
|                           | Termination | SMA Plug   |
| <b>GNSS Cable</b>         | Cable       | CS29   |
|                           | Length      | 6m (20ft)  |
|                           | Termination | SMA Plug   |

<sup>1</sup> Peak gain does not include cable attenuation

<sup>2</sup> VSWR & Isolation measured on 600x600 (2'x2') ground plane with 1m (3') low loss cable

#### About Sierra Wireless

Sierra Wireless is building the Internet of Things with intelligent wireless solutions that empower organizations to innovate in the connected world. We offer the industry's most comprehensive portfolio of 2G, 3G, and 4G embedded modules and gateways, seamlessly integrated with our secure cloud and connectivity services. OEMs and enterprises worldwide trust our innovative solutions to get their connected products and services to market faster.

For more information, visit [www.sierrawireless.com](http://www.sierrawireless.com).