



S5GIRXX16RR-XP-XXX-X series antenna

GPS and Iridium antenna

The S5GIRXX16RR-XP-XXX-X series can receive L1 or L1/L2 GPS + Iridium signals. There are four mounting holes located outside an o-ring seal on the antenna for easy installation onto platforms with tight size and weight budgets. Separate GPS and Iridium connectors are provided.

The GPS channel is offered in passive and active (amplified) configurations. The active configuration offers 2-stage integrated bandpass filtering for high out-of-band rejection and limiter diodes to protect sensitive receiver electronics. The passive configuration is best suited to applications where the antenna is located close to the GPS receiver and offers the lowest insertion loss to minimize your system's noise figure. The Iridium channel is passive (non-amplified).

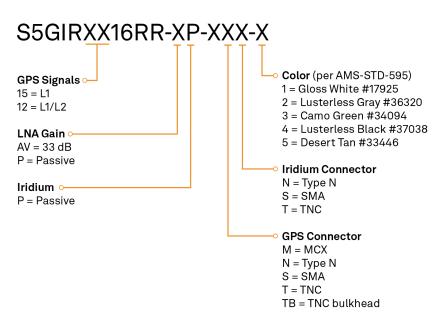
Antcom can customize this product family to meet your specific requirements. Please contact us for more information about customization options.



Features

- · Separate GPS and Iridium connectors
- Mounting screws, washers and o-ring included
- Passive and active GPS options available
- · Connector options available
- · Paint color options available

Part number decoder



Benefits

- Multi-functional antenna includes GPS plus Iridium for size and weight savings
- Easy installation with only one set of mounting holes and one cable clearance hole

Electrical

Frequency range

 GPS L1
 1575.42 ±12 MHz

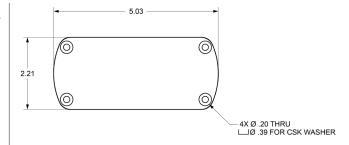
 GPS L2 (optional)
 1227.60 ±12 MHz

 Iridium
 1616 – 1625.5 MHz

VSWR <2.0:1

Impedance 50 ohms

Polarization RHCP



Mechanical and environmental

$\textbf{Weight} \ (\texttt{typical})$

GPS L1+ Iridium 8.4 oz (238 g)
GPS L1/L2+ Iridium 9.1 oz (258 g)

Temperature -55°C to +85°C

Altitude 70,000 ft

Random vibration $>30 G_{rms}$



Typical LNA performance

LNA gain

AV option 33 dB P option Passive

LNA noise figure (typical) 4 dB

LNA P1dB out

 GPS L1 + Iridium
 10 dBm

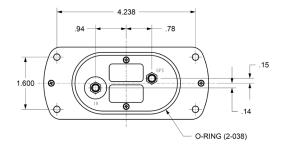
 GPS L1/L2 + Iridium
 8 dBm

Input power +2.7 to +15.0 VDC

<40 mA

Power handling

GPS 1 Watt CW Iridium 30 Watt CW



Contact Hexagon | Antcom

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