

To buy, sell, rent or trade-in this product please click on the link below:
<https://www.avionteq.com/Viavi-GC-130-GPS-Antenna-Coupler>



Brochure

VIAVI

GC-130

GPS Antenna Coupler



Designed to solve the problem of poor GPS coverage in hangar environments or when a simulated static or dynamic GPS signal is required.

The VIAVI GC-130 GPS Antenna Coupler provides >20 dB of antenna isolation, ensuring outside GPS signals are not seen by the aircraft's GPS receiver when simulating a user defined GPS signal. The coupler mounts directly over the aircraft's GPS antenna.

The GC-130 accommodates the large pattern antennas (up to 14" in diameter) and Controlled Radiation Pattern Antenna (CRPA) used on anti-jam GPS systems, unlike the smaller coupler that is included with the VIAVI GPSG-1000 GPS Simulator. These types of antenna are typically used on military and high performance aircraft that require GPS navigation and anti-jam capability.



Features

- Provides >20 dB of antenna isolation
- <1 dB repeatability
- Supports GPS antennas up to 14 inches in diameter
- Rugged design for ramp use

Benefits

- Reliable GPS simulation in hangars and other low coverage areas
- When used with the GPSG-1000 GPS Simulator:
 - Almanac and TOD update when no outside GPS signal is available
 - Sensitivity testing of the GPS system
 - Dynamic GPS simulation to simulate aircraft movement for testing of other aircraft systems
 - Determine latency of the GPS and transponder systems

Ordering Information

Versions and Options

| Order Number | Description |
|--------------|--------------------------------|
| 141193 | GC-130 GPS Antenna Coupler Kit |

Standard Accessories

| | |
|--------|----------------------------|
| 141747 | GC-130 GPS Antenna Coupler |
| 141982 | Rigid transit case |
| 142163 | Coax cable, 20 ft. TNC |



The GC-130 includes a rigid transit case.

Physical Characteristics

| Coupler | |
|--------------|---------------------------|
| Diameter | 20.0 in. (50.8 cm) |
| Height | 7.6 in. (19.3 cm) |
| Weight: | 8 lbs. (3.6 kg) |
| Transit Case | |
| Dimensions | 24.9 x 23.7 x 13.1 inches |
| | 63.25 x 60.2 x 33.27 cm |

General

| | |
|----------------|---|
| Frequency | 1575.42 MHz (L1/L1C/E1) |
| Return Loss | >12.0 dB at both the antenna under test input and coupler input |
| Insertion Loss | 8.1 dB \pm 0.5 dB |
| Repeatability | <1 dB |
| Isolation | >20 dB |
| Connector | TNC Female |

Export Control

This product is subject to the Export Administration ("EAR") (15 CFR 730-774) and may not be exported, re-exported or otherwise transferred to a foreign person, or outside the United States without authorization from the U.S. Department of Commerce.