

# G6-S

iridium® CERTUS®100



## Certus external antenna satellite device

The G6-S provides an IP data platform for any aviation asset and guarantees connectivity anywhere in the world.

### DESCRIPTION

The G6-S terminal utilizes bi-directional mid-band 88kbps for use with the Iridium NEXT Satellite network. It uses IP data protocol and has multiple interfaces to ensure simple application integration. The design have made it the ideal solution for military/law enforcement/EMS applications that rely on critical data communication. . The G6-S allows use of external GPS, Iridium Certus and Wi-Fi antennas in applications requiring antennas remote or dispersed from the G6-S IP data platform.

### KEY FEATURES

- ✓ 88/88 kbps Satellite Terminal
- ✓ Simple installation
- ✓ Truly Global coverage
- ✓ DO-160G Certified
- ✓ Encryption
- ✓ External Iridium, GPS, Wi-Fi antennas
- ✓ Multiple interfaces
- ✓ Uninterrupted power
- ✓ Background IP
- ✓ Streaming video and imagery
- ✓ Voice, VOIP & PTT
- ✓ Flight Data Monitoring, telemetry and exceedances
- ✓ Automated Flight Following (AFF)
- ✓ Enhanced aerial firefighting

## SPECIFICATIONS



### MODEM

CERTUS® 100 **Jacobs**  
88/88kbps



### SIZE

W 14.6 cm (5.75") x L 28 cm  
(11.0") x H 4.7 cm (1.84")



### WEIGHT

<1.8 kg (4.0 lbs) excludes  
any optional mounting  
bracket.



### POWER

12V - 32VDC wide range 3A



### ENVIRONMENTAL

**Operating Temperature:**  
-40 Deg C to +70 Deg C

**Storage Temperature:**  
-40 Deg C to +85 Deg C



### SENSORS

Altimeter, 3 Axis Accelerometer,  
3 Axis Gyro, 3 Axis Magnetometer,  
Temperature



### CONNECTORS

13 Pin Amphenol aerospace circular  
connector and 26 Pin I/O connector. RF: TNC  
Iridium, SMA GPS and SMA-RP Wi-Fi.



### INTERFACE

Wi-Fi, RS232, 2X ARINC 429 RX channels, 1X  
Ethernet, 11 digital inputs, 2 digital outputs, 5  
analog inputs, analog audio I/O. Front panel or  
remote LEDS-Iridium, GPS, Wi-Fi signal status.



### ALTITUDE

Up to 25,000 Feet



### HUMIDITY

Up to 95% at +55 Deg C



### SAND AND DUST PROOF AT

+55 Deg C and ambient



### ANTENNAS

External Iridium CERTUS,  
GPS and Wi-Fi.



### INGRESS PROTECTION CODE

IP 54

 **ENVIRONMENTAL**

**DESIGNED TO RTCA/DO-160G/MIL-ST-704F (28VDC SYSTEMS)**



**TEMPERATURE**

Category B2



**HUMIDITY**

Category A



**VIBRATION**

Category S & U2



**EXPLOSIVE ATMOSPHERE**

Category E



**WATERPROOFNESS**

Category Y



**POWER INPUT**

Category B



**VOLTAGE SPIKE**

Category A



**RADIO FREQUENCY  
SUSCEPTIBILITY**

Category T



**RADIO FREQUENCY  
EMISSION**

Category H



**AUDIO FREQUENCY  
SUSCEPTIBILITY**

Category B



**INDUCED SIGNAL  
SUSCEPTIBILITY**

Category AC



**MIL-STD-704F  
POWER 28 VDC**

Table IV, Fig 13 & 15



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