



Guardian*Mobility*

AERIAL FIREFIGHTING CONFERENCE

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Aerial Firefighting Conference 2021

October 26, 2021

Abbotsford International Airport – Airside
Event Spaces

Guardian Mobility will be attending:

Contact me if you wish to meet up: Giles Peeters - cell: +1-613-614-6911 gpeeters@guardianmobility.com

Please check out our website: <https://www.guardianmobility.com/>

GUARDIAN MOBILITY - IRIDIUM CERTUS® 100

Guardian is investing into Iridium Certus® 100 to become the world leader in providing midband satellite end-to-end aviation solutions.

To achieve this there has been significant investment in hardware, networks, gateway/billing services and airtime licenses to offer unique services within the aviator sector. After 2 years of development, services will soon (Q2 2022) be available with features and capability as follows:

- **Bi-directional 88/88 kbps background IP**
- **Integrate with cellular and backup Iridium Short Burst Data (SBD)**
 - **FAA & Iridium certified**
 - **Automated Flight Following (AFF)**
- **Aerial Firefighting bucket drop information**
 - **Live video streaming and imagery**
 - **Satellite voice**
 - **VOIP**
 - **Flight Data Monitoring (FDM)**
- **Integration to loadcells and onboard CPU's**
- **Gateway services for 3rd party devices into AFF gateway.**

Below is a preview of future capability, product, network and enterprise services coming soon:

CERTUS 100 Capability



OPERATIONAL COMMAND CENTRE

In-flight

- Global Satellite Connection
- Geographical information: Real-time location, Speed, Altitude, Heading
- Emergency alerting
- Real-time Exceedance alerting
- Geofence and flight planning
- Chat messaging
- Push-to-talk
- Voice communications through smart phone applications
- Live Video and in-cabin Imagery



Operational Command

- Situational awareness C2
- Planning application
- Video and imagery
- Push-to-Talk all informed communication
- Flight exceedance alerting
- Flight analysis for air safety

G6 CERTUS 100 Terminal



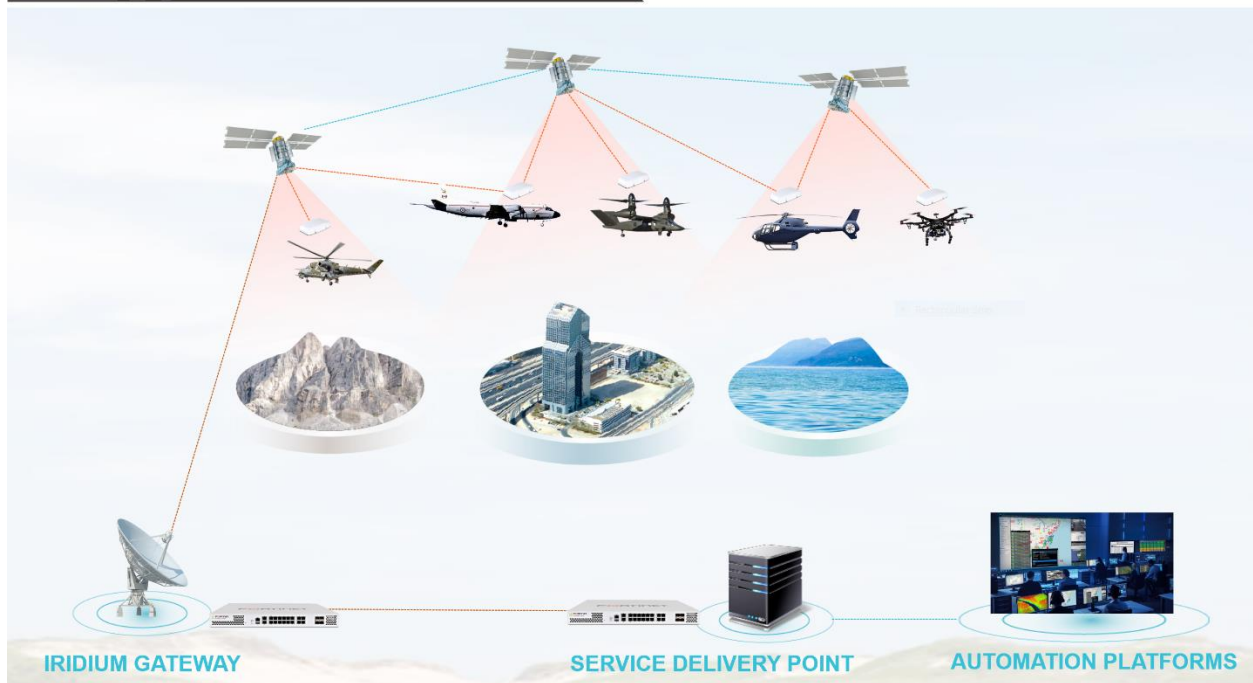
KEY FEATURES

- ✓ 88/88 kbps Satellite Terminal
- ✓ All in one
- ✓ Truly Global
- ✓ STCs and MilSpec components
- ✓ Encryption
- ✓ Integrated Iridium and GPS antenna
- ✓ Multiple interfaces
- ✓ Backup power
- ✓ Background IP
- ✓ Streaming video
- ✓ Voice, VOIP & PTT
- ✓ Real-time image, health monitoring, telemetry and exceedances
- ✓ Automated Flight Following
- ✓ Enhanced aerial firefighting

SPECIFICATIONS

MODEM Iridium CERTUS CST 88/88kbps	CONNECTORS 13 Pin or 37 Pin Amphenol aerospace circular connector
SIZE W 14.7 cm (5.8") x L 22.6 cm (8.9") x H 7.8 cm (3.1")	INTERFACE WiFi, RS232 Bluetooth 4, 2 Ethernet, 9 digital inputs, 2 digital outputs, 5 analog inputs, analog audio I/O
WEIGHT 350 g (0.77 lbs) excludes any optional mounting bracket.	ALTITUDE Up to 25,000 Feet
POWER 9V - 32VDC wide range 2A	HUMIDITY Up to 95% at +55 Deg C
ENVIRONMENTAL Operating Temperature: -40 Deg C to +71 Deg C Storage Temperature: -40 Deg C to +90 Deg C	SALT FOG 48-hour continuous exposure
SENSORS Altimeter, 3 Axis Accelerometer, 3 Axis Cyro, 3 Axis Magnetometer, Temperature	ANTENNAS Built in Iridium CERTUS and GPS
SAND AND DUST PROOF AT +55 Deg C and ambient	INGRESS PROTECTION CODE IP 66
	FLUID SUSCEPTIBILITY Continuous spray of de-icing fluid

CERTUS Network Architecture



CERTUS Network Applications



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Guardian*Mobility*

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About Us

More than just tracking. at Guardian Mobility, we empower aircraft fleet managers and owner-operators with fundamental operational data to make timely decisions. Our Airtime and Billing as a Service solution are easy to deploy and tailored to fit your specific requirements.

Contact Us

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