

AGCS

AIR-GROUND COMMUNICATIONS SYSTEM



Astronautics

CONNECTED AIRCRAFT SOLUTIONS



AGCS

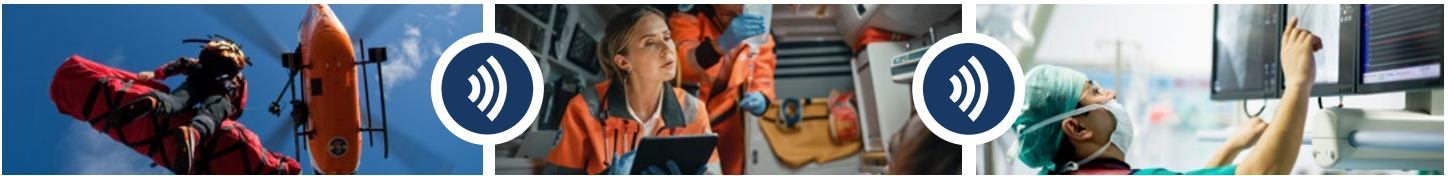
DATA YOU NEED.
DATA YOU CAN AFFORD.

Astronautics' Air-Ground Communications System (AGCS) is a secure air-to-ground data transmission system that provides high-speed flight, mission, and maintenance data at an affordable price. AGCS provides:

- ✓ High-performance wireless access to operational and maintenance data
- ✓ Secure wireless Internet
- ✓ Flight data management compliance with ability to store and retrieve hundreds of hours of operational data
- ✓ Secure protection of critical avionics from non-authorized access

AIR AMBULANCE

INFORMED AND TIMELY DECISION MAKING



Patient Pick Up

- ✓ AGCS allows crews to utilize helicopter as a mobile hot spot
- ✓ Flight nurses connect patient to onboard systems

Enroute to Hospital

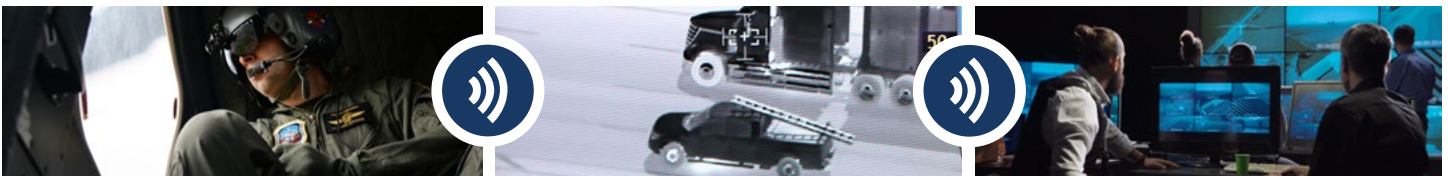
- ✓ AGCS hotspot allows onboard systems to stream data to awaiting critical care team
- ✓ AGCS facilitates text communication between flight crew and critical care team

Awaiting Hospital Care Team

- ✓ Critical care and support teams receive data from incoming flight team
- ✓ Communication is enhanced from patient pick up to drop off

LAW ENFORCEMENT

EYES IN THE SKY, SAFETY ON THE GROUND



In-Pursuit Air Team

- ✓ Flight crew remains connected to ground control seamlessly
- ✓ Data and situational updates are relayed to ground control in real time, through audio and video

Live Video Data

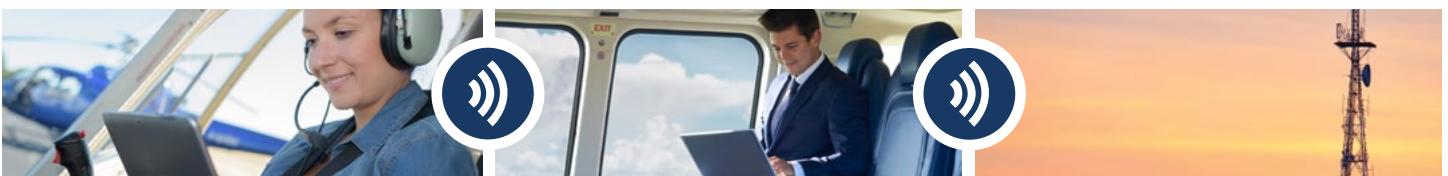
- ✓ Real-time video from air to ground gives ground units constant new information while in pursuit

Ground Control Dispatch

- ✓ Ground units and dispatch all access the same real-time data being provided by the air team
- ✓ Server to receive incoming secure data stream from the helicopter accessed through web-browser applications

EXECUTIVE & VIP TRANSPORT

HIGH-SPEED, LOW-COST PILOT & PASSENGER CONNECTIVITY



Real-Time Flight Data

- ✓ Avionics data, real-time weather, and operations center connectivity for pilots

In-Cabin Wireless

- ✓ Video streaming, cabin control, email, and web browsing for passengers

Ground Connectivity

- ✓ Server to receive incoming secure data stream from the helicopter accessed through web-browser applications

AGCS consists of an airborne communication server (AFS 6400), wireless connectivity module (AFS 6460), remote media device (AFS 6480), and ground-server software (GSS 6000), creating a complete air-to-ground, secure data transmission system.

AFS 6400



AIRBORNE COMMUNICATION SERVER

Type

Ethernet	2 (GigE) 19 (FAST)
ARINC 429 Rx Tx	4 4
RS-232 422 485	4 5 1
Discrete In Out	8 2

Quantity

Memory	Power	Size	Weight
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64GB SLC SSD (480GB opt.)	28VDC 30w Nom. 42w Max	L 9.7 in W 7.7 in H 2.2 in	4.1 lbs
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AFS 6460



CONNECTIVITY MODULE

Cellular

3G 4G LTE MIMO
Discrete In Out

Wi-Fi

802.11b/g/n/ac
11 2

Ethernet interface to ACS including power

2GB	PoE 10w Nom. 20w Max	L 7.8 in W 3.9 in H 1.8 in	1.6 lbs
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AFS 6480



REMOTE MEDIA DEVICE

Optional Equipment

Up to 512 GB available
Single SD card slot

Up to 512GB SD	PoE 0.7w Nom. 2.1w Max	L 3.8 in W 2.6 in H 1.0 in Faceplate: 1.9 in	0.4 lbs
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GSS 6000



GROUND SERVER SOFTWARE
(HOSTED ON OEM / OPERATOR SERVER)

Air / Ground Data Exchange

File import / export; messaging applications; and communication management

Fleet Management

Configuration monitoring and administration
Data repository management