



AERO SYNC™

POWERED BY **Astronautics**



AEROSYNC™

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MISSION READY. DATA ANYWHERE.

Astronautics' AeroSync family of products provide high-speed flight, mission, and maintenance data at an affordable price. AeroSync provides:

- ✓ Broadband connectivity
- ✓ 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

- ✓ Flight crews can use the helicopter as a mobile hot spot
- ✓ Flight nurses connect patient to onboard systems

Enroute to Hospital

- ✓ Aircraft hotspot allows onboard systems to stream data to awaiting critical care team
- ✓ Text communication is facilitated 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 / SEARCH & RESCUE

EYES IN THE SKY, SAFETY ON THE GROUND



In-Pursuit Air Team

- ✓ Flight crew remains connected to ground control seamlessly
- ✓ Situational awareness updates are relayed to ground control in real time, through data and video streams

Live Video Data

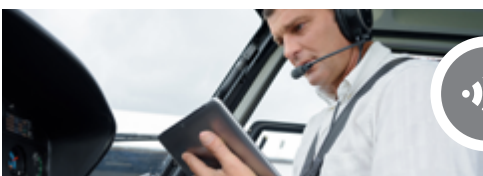
- ✓ Real-time video from air to ground gives ground units constant new information while in pursuit

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

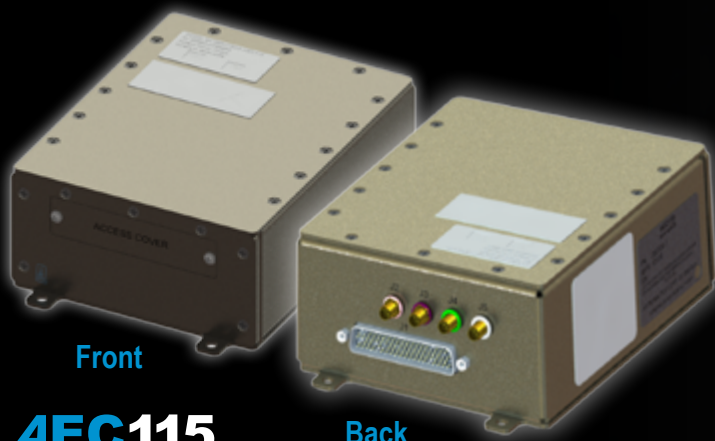
- ✓ Avionics data, real-time weather, and operations center connectivity for pilots

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



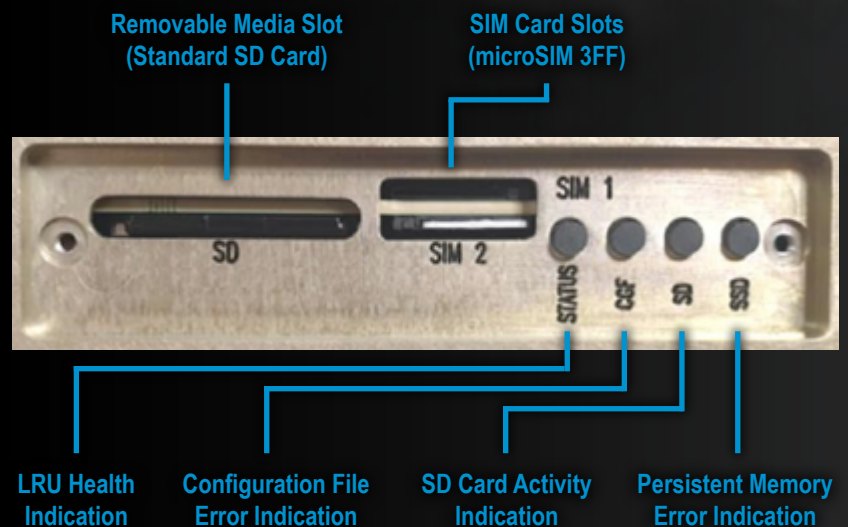
AeroSync MISSION (AEC115) is a small, all-in-one, lightweight server built for data retrieval and offboarding.

AeroSync MISSION is TSO-approved, providing secure communication that meets FAA/EASA security standards.

AEC115

| Volume | Total Weight | Installation | Wi-Fi | Global Cellular | Media Slots |
|----------------|---------------------|--------------|----------------------|-----------------|--------------------|
| 6.3x5.0x2.5 in | 1.9 lbs 870 grams | Flange Mount | 802.11 b, g, n, & ac | 3G, 4G, & LTE-A | Cell SIM & SD Card |

| I/O Complement | Quantity |
|-----------------------|----------|
| 28VDC Power | 1 |
| A429 Rx | 6 |
| A429 Tx | 1 |
| Ethernet | 2 |
| CAN bus (v2.0B) | 1 |
| Serial RS232 | 2 |
| Serial RS422 | 2 |
| Coaxial RF (Wi-Fi) | 2 |
| Coaxial RF (Cellular) | 2 |
| XDSC SD Card | 1 |
| SIM Card | 2 |



BROADBAND POWERHOUSE

- Up to 10 connected client devices supported for access to internet and avionics parameters
- Automatic power output control for global operation and world-wide carrier data services
- Robust avionics interfaces for maintenance and mission data storage and off-aircraft export
- 100% performance increase utilizing multiple antenna array for cellular and Wi-Fi
- Wi-Fi access point extends up to 400 feet from aircraft for constant mission connection
- Customizable access security controls with VPN data encryption available

AeroSync MAX consists of an airborne communication server (AFS6400), wireless connectivity module (AFS6460), remote media device (AFS6480), and ground-server software (GSS6000), creating a complete air-to-ground, secure data transmission system.

AFS6400

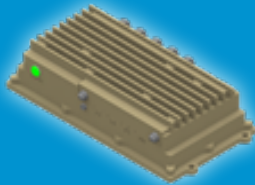


AIRBORNE COMMUNICATION SERVER

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

| Memory | Power | Size | Weight |
|------------------------------|------------------------------|----------------------------------|---------|
| 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 |

AFS6460



CONNECTIVITY MODULE

| Cellular | Wi-Fi |
|-------------------|----------------|
| 3G 4G LTE MIMO | 802.11b/g/n/ac |
| Discrete In Out | 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 |
|-----|----------------------------|----------------------------------|---------|

AFS6480



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 |
|----------------|------------------------------|--|---------|

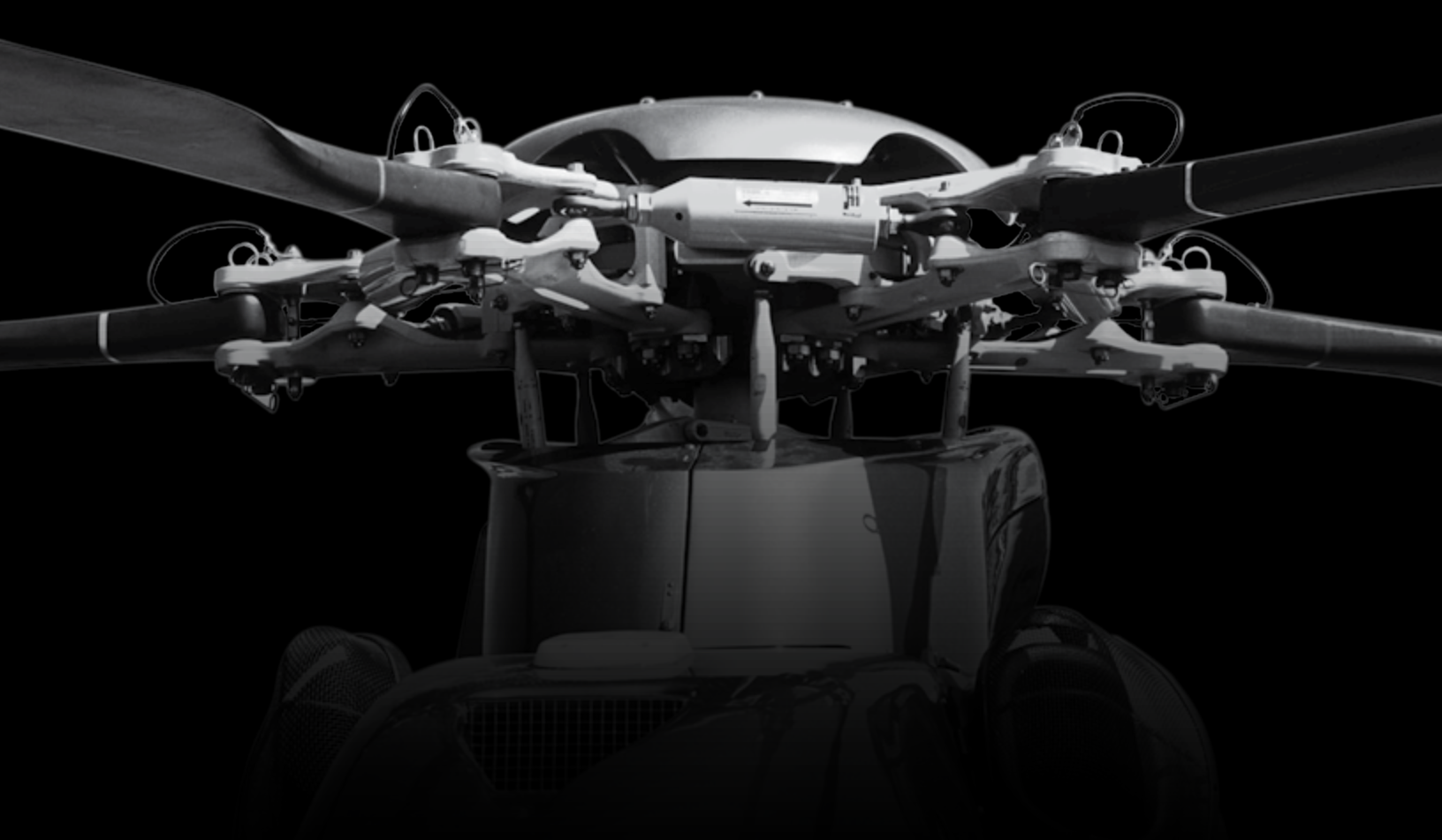
GSS6000



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



Astronautics

CONNECTED AIRCRAFT SOLUTIONS



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