



Tablet Interface Module (TIM®)

Aircraft Interface Device (AID)

# THE REALITY OF INTELLIGENT FLIGHT

Putting actionable data in the right hands at the right time

To learn more, go to [collinsaerospace.com/intelightsight](http://collinsaerospace.com/intelightsight)

### CORE FUNCTIONALITY

- Access to aircraft data and communications via the AID
- Mass storage
- Navigation logging
- EFB cross-talk/tablet networking
- Tablet charging for iPad® and Windows Surface 3® tablets

### ENABLED CAPABILITIES

- Performance optimization
- Real-time weather
- Aircraft printing
- Ship's library
- Aircraft health monitoring
  - Conditioned base maintenance
- Flight tracking
- Aircraft data recording
  - Predictive health maintenance
- eTechLog

### OPSINSIGHT™ APPLICATIONS AND SERVICES

- Electronic flight folder
- Quick access recorder
- Cloud and communication services

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# INTELLIGENCE AND INSIGHT ON A FUTURE-PROOF PLATFORM

Our promise of the intelligent plane is shaping the future of our industry. At Collins Aerospace, we're already making that idea fly, by harnessing the power of intelligent insights to solve customer challenges.

With our focused shift to proactive strategies through advanced data and predictive analytics, we give fleet owners the ability to meet increasing demands and expectations in the face of rising costs.

As air traffic grows, we make the job of flight crews much easier by putting actionable data in the right hands at the right time. With the strength and resources of a global aerospace leader and the creativity, drive and innovative spirit of a startup, we make it happen.

Solving customer challenges through advanced data and predictive analytics.

Intelligent flight is the use of data for tangible results – getting the right data to the right people at the right time:



## FLIGHT OPERATIONS

- Integration potential with maintenance control
- Reduced paper document maintenance with improved revision control
- Improved aircraft data collection and access
- Faster response time for maintenance discrepancies



## MAINTENANCE

- Electronic recordkeeping
- Digital data entry and retrieval
- Reduced administration



## GROUND OPERATIONS

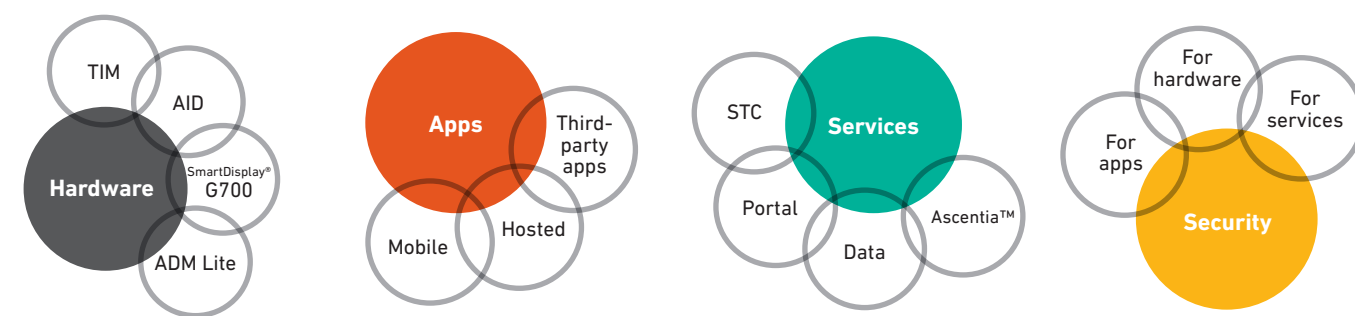
- Tail-specific discrepancy log
- Loadmaster apps
- Ownship positioning



## IN FLIGHT

- Increased situational awareness
- Faster response time to mission changes
- Real-time flight performance and discrepancy tracking

## Elements of a more intelligent fleet



### HARDWARE

- Aircraft Interface Device (AID)
- Tablet Interface Module (TIM®)
- SmartDisplay® G700
- ADM Lite

### APPLICATIONS

- Electronic flight folder
- ACMS Lite
- Data loader
- Virtual Quick Access Recorder Plus (vQAR+)
- Data repository

### SERVICES

- Data services
- Supplemental type certifications (STCs)
- Portal hosting
- Ascentia® aircraft health management

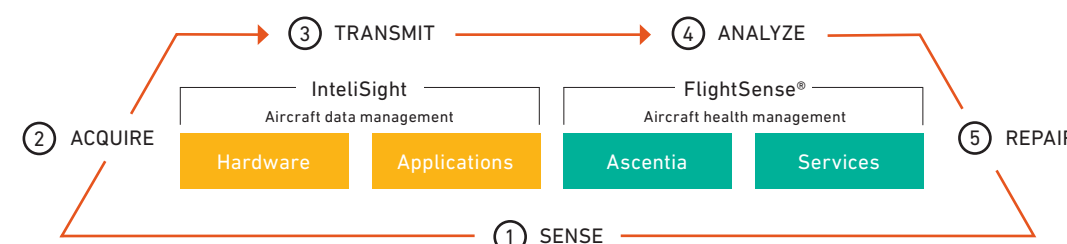
### SECURITY

- For hardware, applications and services

Creating an intelligent ecosystem from plane > fleet > ground operations to collect data and drive actionable decisions.

## IT'S ALL PART OF THE COLLINS AEROSPACE INTELLIGENT ECOSYSTEM

Our intelligent aircraft ecosystem includes the suite of parts, systems and people that make our data-driven services possible.



When it comes to intelligent aircraft, we handle data at every step in the flow – from sensing and transmitting, to intelligently applying it to proactive and pre-emptive repairs. Our data-driven learnings are integrated into our engineering organization to

develop modifications, upgrades and next-generation aircraft. This increases reliability, improves connectivity and makes air travel more convenient and comfortable for passengers.

## Electronic flight bag (EFB) systems

Our tablet EFB system enhances the functionality of tablet devices to increase situational awareness:

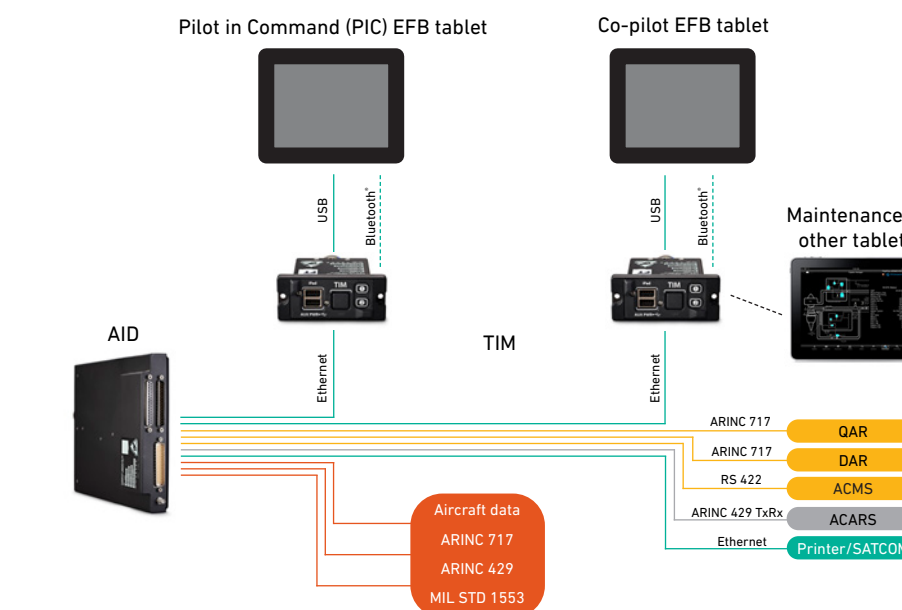
- Permits continuous in-flight full recharging of tablet
- Provides real-time avionics data visibility onto each tablet
- Two-way, secure digital communication between the aircraft and other tablet EFB users
- Compatibility with a wide range of tablets (iOS® and Windows®)
- Encrypted connectivity to multiple on-board devices
- Foundation for additional capabilities and future purpose-built EFB systems
- Field loadable for both embedded and hosted application software updates

### SMALL INSTALLATION FOOTPRINT

Our tablet EFB system is sized to easily fit in cockpits. It also helps reduce aircraft weight and fuel cost (fuel efficiencies) by minimizing the amount of papers and manuals the flight crew is required to have on board.

The tablet-compatible EFB system consists of two unique tablet interface modules (TIM), an FAA/EASA-certified aircraft interface device (AID) and an installation kit. The TIM works with the AID, allowing the user's tablet to perform as an EFB and access an array of key aircraft avionics data. These include GPS position, ground speed and aircraft heading, to name just a few – something that has previously been unavailable to tablet EFB users.

### TABLET EFB SYSTEM DIAGRAM



### AID CONNECTIVITY

- 1x +28 VDC input power
- 3x 10/100 base-t Ethernet
- 3x 10/100/1000 base-t Ethernet
- 16x ARINC 429 bipolar receivers (two receivers feature auto-detect for bipolar ARINC 717 data)
- 1x ARINC 717 hardware bi-phase receiver
- 6x ARINC 429 transmitters
- 1x RS 422/485
- 1x RS 232
- 16x GND/open discrete inputs
- 4x GND/open discrete outputs
- 1x +28 V/open discrete input
- 1x MIL STD 1553

### FEATURES

- Lightweight and low-power solution (<2.5 lbs and <25 W)
- Field-loadable software
- ARINC 834 STAP server
- Communicates with preferred SATCOM or ACARS providers
- 4 GB RAM
- Qualified to DO-160G environments
- Solid-state CFast SATA 32 GB storage (removable/upgradable)
- Backward compatible with our first-generation AID