

# Aircraft Connectivity Solutions

The right data from the right place at the right time



Information is power, especially when it comes to aircraft maintenance and flight operations. That is why CMC Electronics offers connectivity solutions that allow operators to seamlessly access data from aircraft and maximize its value while keeping it under their control.

CMC's secure open platform is designed to meet operators' evolving needs.

<b>Real-time information</b>	Store, process and wirelessly offload A717/QAR critical data
	Use existing communication systems for in-air connectivity
<b>Flexibility</b>	Extend AIS capabilities by hosting virtual machines, docker containers and C# add-ons
	Support value-added applications such as ACARS over IP, Flight Plan Optimizer, Data Loaders, EFF, and more
<b>Streamlined processes</b>	Bridge the gap between avionics and any type of EFBs and tablets
	Deploy remote fleet-wide software and security updates
	Provide InfoSec-approved cybersecurity connectivity

## USE YOUR IMPROVED DATA CONNECTION TO

- Optimize flight planning
- Improve situational awareness
- Facilitate real-time decision making
- Reduce turnaround times and AOGs
- Decrease flight crew workload
- Save on fuel, time and operational costs
- Streamline dispatch processes
- Easily manage software updates

# Aircraft Information Server (AIS) – Product Configuration\*

## Managed Network Switch Features

- Complete switch management and configuration
- Two programming pins
- Port management via SNMP APM (Aircraft Personality Module)
- High-performance layer 2/3/4 switching and routing
  - Wire-speed hardware-based switch – L2, L3, L4 capabilities
  - VLAN support (802.1Q)
  - Spanning tree including STP (802.1p, Ethertype, VLAN-ID, IPV4/6 DSCP/ToS)
  - DHCP server
- Security features
  - Stateful packet inspection firewall
  - Access control list (ACL) filtering
  - Port security
  - Storm control
  - Per port ingress and egress port mirroring
  - OOOoE support
  - SNMP support
- Self-test and diagnostics
  - PBIT – System verification at power-up
  - CBIT – Continuous system monitoring
  - IBIT – User-initiated system verification

## Application and File Server Features

- Intel® Atom™ dual and quad core processors
- 4GB to 16GB of RAM
- Linux and Windows® OS
- 2 x 1 TiB mSATA SSD drives
- Support for Level D or Level E application hosting

## Aircraft Interface Device Features

- Up to 7xGbE Base-T Ethernet ports
- Up to 12x 10/100 Base-T Ethernet ports
- 10x ARINC 429 receivers
- 4x ARINC 429 transmitters
- 8x/4x in/out discrete support
- RS422/232 serial interface support
- USB 2.0 port
- ARINC 717 Rx connections
- ARINC 615A support
- ARINC 619 support
- IEEE 802.11 a/b/g/n wireless access support (requires external antenna)

## Tablet Connectivity Features

- ARINC 834 network service
- ACARS ARINC 619/620 communication services
- ARINC 740 printer services
- Moving map support with NMEA streaming
- Integrated PED device authentication mechanism
- Support for multiple access point Wi-Fi network infrastructure as well as wireless distribution system (WDS)



\*Other options and configurations are available.

For more information, visit [www.cmcelectronics.ca](http://www.cmcelectronics.ca) or email us at [connectivity@cmcelectronics.ca](mailto:connectivity@cmcelectronics.ca)

  
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