PilotView®

Aircraft Information Server

Bridging the Connectivity Gap.

The Aircraft Information Server (AIS) addresses the ever increasing data sharing requirements associated with cockpit, cabin and aircraft maintenance systems.

In conjunction with approved aircraft mounts and secured connectivity channels, CMC’s AIS bridges the gap between traditional Electronic Flight Bags, tablets and certified aircraft avionics.

- Managed Network Switch – delivers 1GbE/100 Base-T switching and routing with support for carrier-grade network security and firewall features
- Application, Media and File Server – supports OEM or Operator applications within a Linux and/or Windows® OS environment
- Aircraft Interface Device – supports certified aircraft interfaces, including ARINC 429, 615, 717 and discrete signals
- Tablet Support – Integrated server architecture supporting agnostic software services for both wired and wireless tablet data communications

Aircraft Information Server (AIS) Product Configuration

Packaging
- ARINC 600 (2 MCU) package or compact form factors including ARINC 759 compliance
- 8lbs (full AIS configuration)
- 50W, 22-30VDC (50ms ride-thru)

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 (802.1d), RSTP (802.1w) and MSTP (802.1S)
  - 802.1x port-based access control
  - QoS multi-layer classifier: 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
- PPPoE support
- SNMF 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
- 2GB to 16GB of RAM
- 32GB SSD expandable storage
- Support for Level D or Level E application hosting

Tablet Connectivity Features
- ARINC 834 network service
- AGARS ARINC 615/620 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)

References to the various certification levels refer to planned certification. Please contact us for actual certified levels and schedules. This specification is for information purposes only. Specifications are subject to change without notice.

www.cmcelectronics.ca

The ever-increasing data sharing requirements associated with cockpit, cabin and aircraft maintenance systems are addressed by the Aircraft Information Server (AIS). In conjunction with approved aircraft mounts and secured connectivity channels, CMC’s AIS bridges the gap between traditional Electronic Flight Bags, tablets and certified aircraft avionics.

- **Managed Network Switch** – delivers 1GbE/100 Base-T switching and routing with support for carrier-grade network security and firewall features.
- **Application, Media and File Server** – supports OEM or Operator applications within a Linux and/or Windows® OS environment.
- **Aircraft Interface Device** – supports certified aircraft interfaces, including ARINC 429, 615, 717 and discrete signals.
- **Tablet Support** – Integrated server architecture supporting agnostic software services for both wired and wireless tablet data communications.

**Aircraft Interface Device Features**
- Up to 7x 10/100 Base-T Ethernet ports
- Up to 12x 1/10/100 Base-T Ethernet ports
- 1x ARINC 429 receivers
- 4x ARINC 429 transmitters
- Bidirectional discrete support
- RS422/485 serial interface support
- USB 3.0 port
- ARINC 717 I/O connections
- ARINC 615A support
- ARINC 619 support
- IEEE 802.11 ab/g/h/n wireless access support (requires external antenna)

**Tablet Connectivity Features**
- ARINC 834 network service
- AGARS ARINC 615/620 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)

[CMC’s Tablet Support Solution as Certified by ATR](https://www.cmcelectronics.ca) (Mount and power port provided by Carlisle Interconnect Technologies)
Aircraft Information Server (AIS) Product Configuration

**Packaging**
- ARINC 600 (2 MCU) package or compact form factors including ARINC 759 compliance
- 16Gb (full AIS configuration)
- 50W, 22-30VDC (50ms ride-thru)

**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 (802.1d), PISTP (802.1w) and MSTP (802.1S)
- 802.1x port-based access control
- QoS multi-layer classifier: 802.1p, Ethertype, VLAN-ID, IPV4/6 DSCP/ToS

**Security features**
- Stateful packet inspection firewall
- Access control list (ACL) filtering
- Port security
- Storm control
- Per port ingress and egress port limiting
- PPPoE support
- SNMP support

**Self-test and diagnostics**
- PRIT - System verification at power-up
- CRM - Continuous system monitoring
- IBIT - User-initiated system verification

**Application and File Server Features**
- Intel® Atom™ dual and quad core processors
- 2GB to 16GB of RAM
- Linux and Windows® OS
- 32S SSD expandable storage
- Support for Level D or Level E application hosting

**Aircraft Interface Device Features**
- 7x GbE Base-T Ethernet ports
- 12x 10/100 Base-T Ethernet ports
- 4x ARINC 429 receivers
- 4x ARINC 429 transmitters
- Bi/Uni In/Out discrete support
- RS422/485 serial interface support
- USB 3.0 port
- ARINC 717 bus 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
- AGARS 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)

References to the various certification levels refer to planned certification. Please contact us for actual certified levels and schedules. This specification is for information purposes only. Specifications are subject to change without notice.

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