Meeting CNS/ATM Requirements.
For today’s challenging CNS/ATM environment, we have developed the state-of-the-art communication management unit for data link operation. As one of the newest members of the Series 900 line of avionics, the CMU-900 is the most sophisticated data link system in the industry. Its digital technology offers faster integrated communication management and unprecedented flexibility and growth.

Our CMU-900 is an ARINC 758 compliant data link router, interfacing with many aircraft systems such as ACMS/DFDAU, SATCOM, VHF, HFDL, FMS and other aircraft systems. It is designed to support current and future airspace operations, including industry leading implementations for AOC data link such as Plain Old ACARS (POA), AVLC and VDL Mode 2. It also includes industry leading implementations of ATC data link such as FANS, ADS-C, AFN, CPDLC and ATN CPDLC.

Components include the hardware platform, core software, airline operational control (AOC) application function, and the optional ATN Air Traffic Control (ATC) datalink functions. The AOC application data is certification-independent and user-programmable. Updates to the core software and AOC application may be accomplished using an ARINC 615 data loader.

CMU-900 ATC DATALINK CAPABILITIES

The CMU-900’s ATN Router and CPDLC applications are certified. Around 200 aircraft fly today with ATN CPDLC capability, and all of them have the CMU-900. It is compliant with ATN: ICAO SARPs, ED/DO documents and applicable FAA ACs.

Our CMU-900 is also being used every day in support of FANS operations and is Boeing FANS 1 AEIT certified. It is the communications router for the FANS applications (ADS-C, AFN, CPDLC) and interfaces to all the physical layers (HFDL, SATCOM, VDL Modes A, 1, 2) in support of worldwide FANS operations.

SUMMARY OF CAPABILITIES

- ARINC Characteristic 758 compliant and highly reliable
- Single part number for all aircraft types
- Provides multiple air/ground protocols:
  - Plain Old ACARS (POA)
  - AOA/VDL Mode 2
  - ATN
- Supports encryption and compression
  - Encrypted messages are compressed
  - CRC is calculated to ensure message integrity
  - Secure communication of ACARS messages
- Boeing FANS-1 AEIT qualified
- Certified via TC and STC on most aircraft types in various software configurations
- Core software
  - Certified software configuration
    - Digital and discrete IO
    - Peripheral and uplink/downlink routing
    - ACARS over AVL (VDL Mode 2) - option
    - ATN router - option
    - Software data for Core, AOC, and VM data
    - ATC application
    - Technical application
- AOC application
  - User modifiable without certification impact
- Vendor modifiable data
  - Rockwell Collins modifiable without certification impact
- AOA and VDL M2 avionics are certified and available
- ATN/CPDLC avionics are certified and available
- Over 2300 CMU-900s/APM-900s delivered

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>12 lb maximum (5.5 kg)</td>
</tr>
<tr>
<td>Size</td>
<td>4 MCU per ARINC 600</td>
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<tr>
<td>Mount size</td>
<td>2 Shell NIC 600</td>
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<tr>
<td>Power</td>
<td>Primary 115 V ac; 400 Hz</td>
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<tr>
<td></td>
<td>Optional 28 V dc</td>
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<tr>
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<td>Usage &lt;35 W</td>
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<tr>
<td>Power interrupt</td>
<td>Play-through 600 mS</td>
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<td>Warm start</td>
<td>No limit</td>
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<td>Qualification RTCA DO-160C</td>
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<td>Temperature -40 to +55 °C</td>
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<td>Cooling ARINC 600, 404</td>
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<td>Input/output</td>
<td>Transmitters 15</td>
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<td>ARINC 429</td>
<td>Receivers 46</td>
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<td>Analog</td>
<td>Discrete inputs 29</td>
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<td>Discrete outputs 16</td>
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<td>Discrete inputs/outputs 2</td>
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<td>Analog inputs 6</td>
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<td>VHF (MSK audio) 1</td>
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<td>Serial outputs 4</td>
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<td></td>
<td>Serial inputs 2</td>
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<td>Relay contacts 2</td>
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

With our acquisition of ARINC, Rockwell Collins now can provide a full suite of connectivity services. To learn more, please contact: GLOBALink@arinc.com or 1.800.633.6882 or 1.703.637.6360.

MAKE THE MOST OF YOUR AVIONIC SYSTEMS BY INCLUDING ROCKWELL COLLINS ARINC GLOBALINK® FLIGHT SERVICES.

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- More efficient flight dispatching
- Faster security clearance for flight crews
- Reduced engine maintenance costs
- Faster response to flight delays and diversions

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www.rockwellcollins.com/arinc/globalink
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Rockwell Collins delivers smart communication and aviation electronics solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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