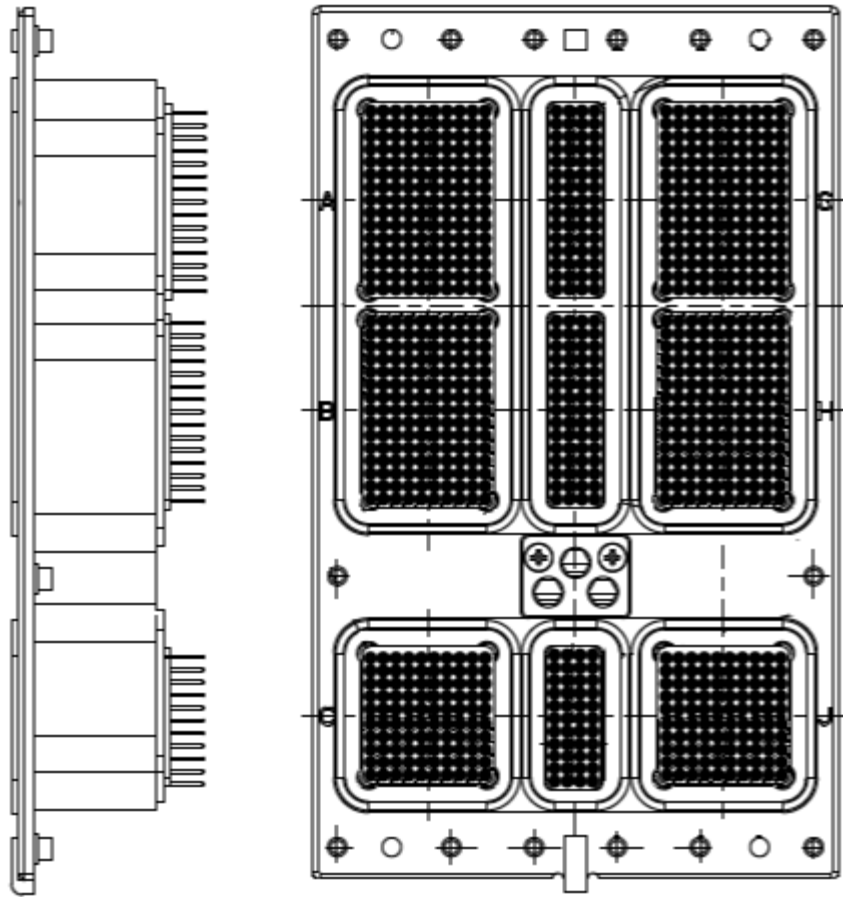
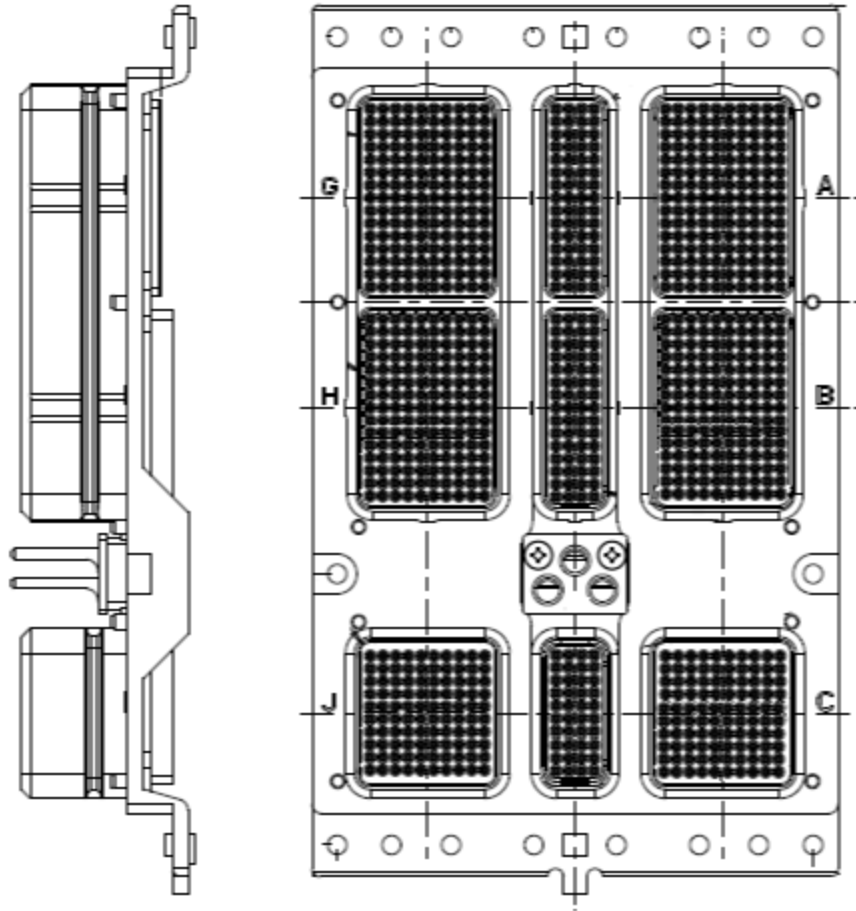


## **ARINC Project Initiation/Modification (APIM)**

- 1.0 Name of Proposed Project** **APIM 20-002**  
Supplement 21 to ARINC Specification 600: Air Transport Avionics Equipment Interfaces  
Size 4 ARINC 600 Connector, Rack and Panel (960 pins)
- 1.1 Name of Originator and/or Organization**  
AIRBUS
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**  
ARINC 600 Connector Working Group  
Chairman TBD
- 2.2 Support for the Activity (as verified)**  
Airlines: TBD  
Airframe Manufacturers: AIRBUS  
Suppliers: RADIALL / SOURIAU / TE  
Others: to add system suppliers → AIRBUS AVIONICS (internal suppliers)
- 2.3 Commitment for Drafting and Meeting Participation (as verified)**  
Airlines: TBD  
Airframe Manufacturers: AIRBUS  
Suppliers: RADIALL / SOURIAU / TE  
Others: to add system suppliers → AIRBUS AVIONICS (internal suppliers)
- 2.4 Recommended Coordination with other groups**  
Cabin Systems Subcommittee  
SAI Subcommittee
- 3.0 Project Scope (why and when standard is needed)**
- 3.1 Description**  
The aim is to increase:
- New connector size with 3 additional cavities
  - Shell number available
  - Pins number
- See attached presentation.



Receptacle connector



Plug connector

ARINC 600 performance expected to be defined, both electrical and mechanical.

### 3.2 Planned usage of the ARINC Standard

Note: New airplane programs must be confirmed by the aircraft manufacturer prior to completing this section.

New aircraft developments planned to use this specification      yes  no

Airbus:                      (aircraft & date)

Boeing:                     (aircraft & date)

Other: (manufacturer, aircraft & date)

Modification/retrofit requirement    yes  no

Specify:                     (A320 & 2023 for testing)

Needed for airframe manufacturer or airline project    yes  no

Specify:                     (A320 & 2023 for testing)

Mandate/regulatory requirement yes  no   
 Program and date: (program & date)  
 Is the activity defining/changing an infrastructure standard? yes  no   
 Specify: ARINC 600 standard  
 When is the ARINC standard required? Dec 2021  
 What is driving this date?  
 to secure system architecture new development with buy strategy  
 Are 18 months (min) available for standardization work? yes  no   
 If NO please specify solution: \_\_\_\_\_  
 Are Patent(s) involved? yes  no   
 If YES please describe, identify patent holder: \_\_\_\_\_

### 3.3 Issues to be Worked

(Describe the major issues to be addressed.)  
 Additional cavities with existing ARINC 600 shells (cf. drawing).

### 3.4 Security Scope

Is Cyber Security Impacted (if yes, check box(es) below) yes  no   
 Aircraft Control Domain yes  no   
 Airline Information Services Domain yes  no   
 PAX Information and Entertainment Systems yes  no   
 Other \_\_\_\_\_ yes  no

## 4.0 Benefits

### 4.1 Basic Benefits

Operational enhancements yes  no   
 For equipment standards:  
 (a) Is this a hardware characteristic? yes  no   
 (b) Is this a software characteristic? yes  no   
 (c) Interchangeable interface definition? yes  no   
 (d) Interchangeable function definition? yes  no   
 If not fully interchangeable, please explain: \_\_\_\_\_  
 Is this a software interface and protocol standard? yes  no   
 Specify: \_\_\_\_\_  
 Product offered by more than one supplier yes  no   
 Identify: RADIALL / SOURIAU / TE

### 4.2 Specific Project Benefits

Offer more PIN contact per avionics equipment to system.

#### 4.2.1 Benefits for Airlines

Enabler for more integrated systems (e.g. Reduce number of avionics S/N)

**4.2.2 Benefits for Airframe Manufacturers**

Offer more PIN contact per avionics equipment to system,

**4.2.3 Benefits for Avionics Equipment Suppliers**

Foster an ecosystem around a new standardized connector.

**5.0 Documents to be Produced and Date of Expected Result**

ARINC 600 Standard update for December 2021.

**5.1 Meetings and Expected Document Completion**

6 meetings to be anticipated during the 18 months

The following table identifies the number of meetings and proposed meeting days needed to produce the documents described above.

<b>Activity</b>	<b>Mtgs</b>	<b>Mtg-Days (Total)</b>	<b>Expected Start Date</b>	<b>Expected Completion Date</b>
<i>ARINC 600</i>	<i>6</i>	<i>18</i>	<i>06/2020</i>	<i>12/2021</i>

Please note the number of in-person meetings and the number of meeting days to be supported by the ARINC IA Staff.

Please add a statement describing the frequency of web conferences.

**6.0 Comments**

These meetings will be held online until in-person travel is viable.

**6.1 Expiration Date for the APIM**

December 2022

***Completed forms should be submitted to Paul Prisaznuk (pjp@sae-itc.org)  
AEEC Executive Secretary & Program Director***