

# BIU

## DESCRIPTION

AlsterAero's Bus Input Output Unit serves as a TIA-422 and TIA-485 serial bus interface unit for the cabin ethernet network.

The data bus interfaces are designed to connect AlsterAero's 485-bus devices like the intelligent PSP switch panels, or the general purpose DCU3 discrete I/O control box.

Also third party equipment as light dimmers can be connected to the BIU's data busses.

With its powerful 32-bit microprocessor the BIU serves as a processing and interface node in AlsterAero's distributed Cabin Management System.

The flexible software architecture allows for fully configurable functionality for any output and input of all peripheral units connectable to the BIU itself, or to the companion serial bus peripherals as the PSP switch panels, or the DCU3.

The cabin ethernet enables the BIU to communicate with further CMS devices or passenger and crew control panels. Throughout all devices on the ethernet or on other TIA-485 busses, AlsterAero's CMS software can combine any input signal with arbitrary logic to generate outputs that can be located on any unit connected to the network.

This flexible system architecture also helps the integrator to save wiring costs because system-functionality can be configured specifically on a unit where its input is generated or its output connection is needed by 3rd party equipment.

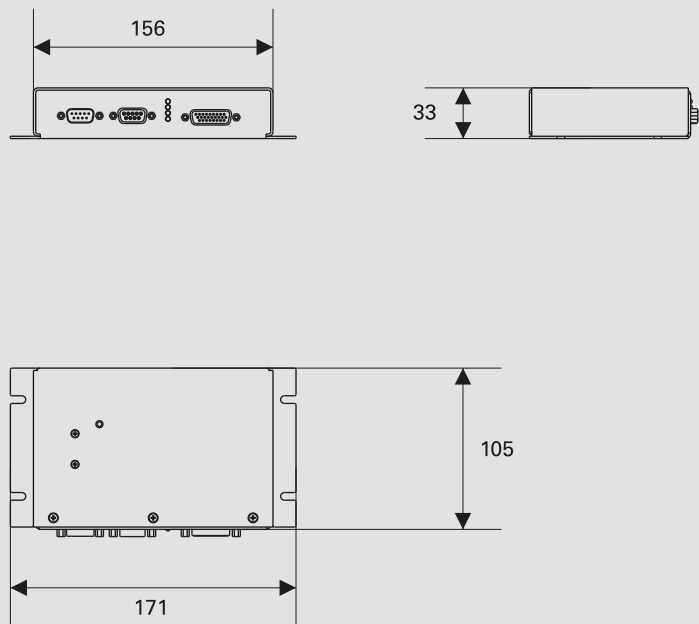


**FEATURES**

- five TIA-485 busses, asynchronous operation up to 460kbit/s
- two TIA-422 busses, asynchronous operation up to 460kbit/s
- AlsterAero's serial bus units (PSP, DCU3) connectable
- 3rd party equipment like dimmers connectable
- very flexible CMS software architecture
- small outline dimensions

**OUTLINE DRAWING**

dimensions are millimeter (mm)



**QUALIFICATION**

- DO160

**CONTACT**

AlsterAero GmbH  
 Heidenkampsweg 43  
 20097 Hamburg  
 Germany

**phone** : +49 (0) 40 2482712 - 0  
**fax** : +49 (0) 40 2482712 - 22



**email** : info@alsteraero.com  
**web** : www.alsteraero.com