



# Orion™ Commercial



## Advanced Communication Management System



Flexible 

- Customizable & future ready
- Scalable & redundant
- Minimized adaptation

Simple 

- Easy to install and configure
- Compatible & interoperable
- Pay as you grow

Small 

- Efficient wiring
- Reduced weight
- Optimized cockpit space utilization

Orion™ is an innovative IP based communication management platform built to support various network-based communication products and applications for commercial airliners and business jets, incorporating cockpit-cabin intercommunication, SELCAL functionality, and PA capabilities within a single system.

Based on ORBIT's patent pending technology, Orion™ features a switchless distributed network architecture based upon a dual-ring topology for inherent redundancy. This ring topology allows manufacturers and system integrators to build the most suitable and cost-effective solution for any given aircraft based on different layout of the COTS system components.

Designed for easy customization and scalability using common core technology, Orion™ allows you to purchase only what you currently require, and subsequently add functionality and capacity based on future needs and new programs.

With its AFDX/IP/Ethernet interfacing capabilities, integration with 3<sup>rd</sup> party avionics systems has never been simpler.

With its unparalleled flexibility and simplicity, Orion™ is a game changer for airborne communication systems, enabling faster time to market and lower cost of ownership than ever before.

### Orion™ Commercial Key Features

- Fully digital
- IP/AFDX interface
- Incorporated SELCAL
- Incorporated PA/PACIS
- Switchless distributed system
- Inherent redundancy
- Non ITAR item

The Communication Control Panel (CCP) and the attendant unit (ATTU) are Orion's main building blocks, which construct the network enabling communication with all internal participants (other CCPs and ATTUs) and integrated with PA Systems, while providing access to external airborne communication devices such as radios, receivers, warnings and recorders.

- 1 x Headset
- (1 x Stereo/2-4 x Mono)
- 3 x Radios
- 7 x Receivers (NAV/Warning)
- 8 x Input discrete
- 4 x Output discrete
- 4 x Ethernet (AFDX ready)
- 1 x Analog recording output

**Dimensions:**  
146W x 75H x 165D

**Weight:**  
1.8 Kg

**Power Input:**  
23 Watt @ 28V

**Compliance:**  
DO-160G, DO178C, DO254C



- 2 x Handsets
- 1 x Headset
- (for Ground Crew Maintenance)
- 4 x Audio Inputs
- (IFE, Video, Music and Tape)

4 x 6W PA Speakers

2 x Audio Outputs (CVR & IFE)

3 x Audio Emergency Inputs/Outputs

19 x Dedicated Discrete Inputs

2 x General Purpose Discrete Inputs

11 x Dedicated Discrete Outputs

4 x AFDX ports

1 x RS485 port (PSU control)

1 x RS232 (CLI)

**Dimensions:**  
193.5W x 123H x 320D

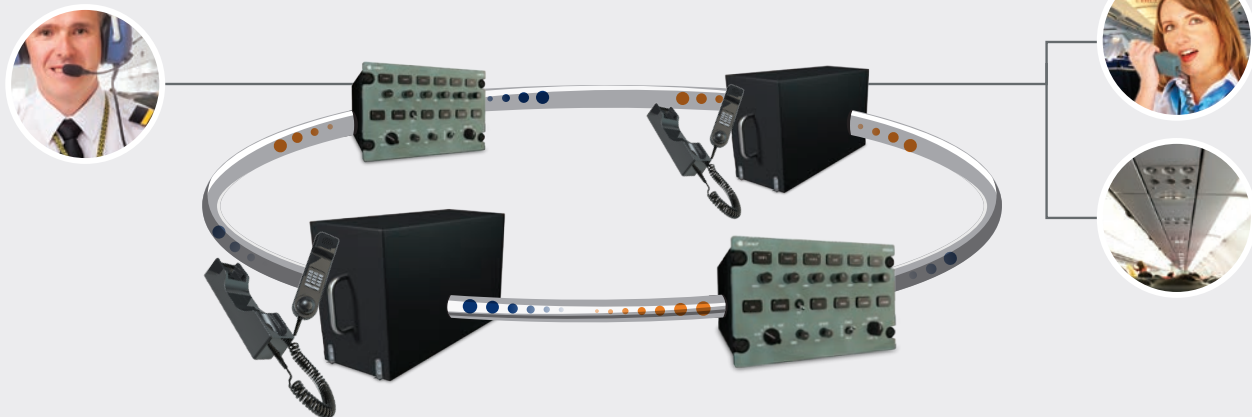
**Weight:**  
4.5 Kg

**Power Input:**  
Main: 8.5 Watt @ 28V  
PA: 92.5 Watt @ 28V

**Compliance:**  
DO-160G, DO178C, DO254C

## Typical System Diagram

Up to 6 CCPs and ATTUs can be connected to a single network, each one adding its own resources capabilities, making the system scalable to fit any small/medium airborne platform.



**PATENT PENDING**

