



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 airborne platforms.

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 3rd party avionics systems has never been simpler.

Equipped with powerful DSP, Orion™ features advanced audio capabilities such as 3D audio and noise filtering, providing the pilot and other crew members with a 360-degree clear audio experience that boosts their situational awareness.

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™ Key Features

- Fully digital
- IP/AFDX interface
- 3D audio technology
- Switchless distributed system
- Inherent redundancy
- Detachable panel
- Non ITAR item



Where Innovation is Standard



The Communication Control Panel (CCP) is Orion's main building block, which constructs the network enabling communication with all internal participants (other CCPs), while providing access to external airborne communication devices such as: radios, receivers, warnings and recorders.

- 1 x Headsets
(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

Up to 6 CCPs 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.

Dimensions:
146W x 75H x 165D

Weight:
1.8 Kg

Power Input:
23 Watt @ 28V

Compliance:
DO-160G, DO178C, DO254C

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Typical System Diagram

PATENT PENDING

