





Orion™ Trainer


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 trainers.

With its advanced features and capabilities such as 3D audio and noise filtering, Orion™ provides pilots with enhanced situational awareness and improved operational efficiency, and along with its small footprint, Orion™ is the most suitable communication solution for modern trainer jets.

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 tailor a 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.

Integration with 3rd party avionics systems has never been simpler, with Orion's AFDX/IP/Ethernet interfacing capabilities.

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™ Trainer Key Features

- Fully digital
- IP/AFDX interface
- 3D Audio
- Noise filtering
- Small footprint
- Inherent redundancy



The main building block of Orion is the Communication Control Panel (CCP), which constructs the network-enabling communication with all internal participants (other CCPs). It also provides access to external airborne communication devices (e.g., radios, receivers, warnings and recorders), while each CCP adding its own resource capabilities.

- 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

Typical System Diagram

PATENT PENDING

