



SANMINA-SCI®

## FIRECOMM®

*Airborne Digital Intercommunications System*

Multi-platform ICS solution for commercial and military aircraft.



The FireComm® Intercommunications Control System is both a military and commercial aircraft solution that harnesses an engineering expertise spanning the full spectrum of fixed-wing and rotary-wing avionics. FireComm propels existing airborne intercommunications systems well into the 21st century by using the latest in digital processing techniques and controls. FireComm optimizes operator performance and user configurability while minimizing common risk factors associated with less robust systems. With all of its system improvements, FireComm has emerged as the future of airborne digital intercommunications.

### FireComm Product Highlights

- System Architecture
  - MIL-STD 1553 Data Bus
  - IEEE 1394b Data Bus
  - 10/100 Base-T Ethernet
  - TIA/EIA-485 Interface Ports
- Design Assurance
  - RTCA/DO-178B: Level-C Software Development
  - RTCA/DO-254: Level-C Hardware Development
  - RTCA/DO-214: Operating Standards
  - ISO 9001 & SAE AS9100: Quality Control
- Reliability
  - RTCA/DO-160E: Environmental Conditions
  - MIL-STD-810F: Environmental Engineering
  - MIL-STD-461F: EMI Control Requirements
  - MIL-STD-464: EMI Effects Requirements
- User Configurable

### FireComm is:

- Digital intercommunications
- Open architecture design
- Tested to military and commercial aviation standards
- Expandable to multiple applications from baseline hardware
- 1394 data bus enabled
- Advanced situational awareness tools
- Safety of flight certified
- User configurable
- DO-178B certifiable
- DO-254 certifiable



**FireComm® ICS Product Family**

**CIU**

Communications Interface Unit

**CCP**

Communications Control Panel – Plus  
Communications Control Panel – Basic

**CCDP**

Communications Control Display Panel

**PAA**

Public Address Amplifier



**FireComm Communications Interface Unit**

- 26 - Audio Channel Inputs
- 12 - Audio Channel Outputs
- 02 - Cockpit Speaker Outputs
- 63 - Discrete Signal Inputs
- 41 - Discrete Signal Outputs
- 01 - 1553 Dual Channel Data Bus
- 02 - 10/100-BaseT Ethernet Channels
- 06 - TIA/EIA-485 Ports (Data/Digital Audio Ports)
- 01 - TIA/EIA-232 Factory Test Port
- 01 - PowerQUICC™ II Processor (DSP/FPGA)
- 50 ms Hold-up

**FireComm Communications Control Panel – Plus**

- 08 - Audio Channel Inputs
- 04 - Audio Channel Outputs
- 15 - Discrete Signal Inputs
- 07 - Discrete Signal Outputs
- 02 - Selectable Microphone Pre-amp Inputs
- 01 - Binaural Earphone Driver or 2 Monaural
- 01 - Call Network Bi-directional Analog Interface
- 02 - 1394b Ports (Data/Digital Audio Ports)
- 01 - Active Noise Reduction Power Source
- 01 - Remote Output Power Source
- Controls Are Fully Programmable
- 01 - TIA/EIA-485 Port (Data/Digital Audio)
- 01 - TIA/EIA-232 Factory Test Port
- 01 - CAN-bus Port
- 50 ms Hold-up

**About Sanmina-SCI**

Sanmina-SCI Corporation is a leading electronics contract manufacturer serving the fastest-growing segments of the global Electronics Manufacturing Services (EMS) market. Recognized as a technology leader, Sanmina-SCI provides end-to-end manufacturing solutions, delivering unsurpassed quality and support to OEMs primarily in the communications, defense and aerospace, industrial and semiconductor systems, medical instrumentation, multimedia, enterprise computing and storage, and automotive technology sectors. Sanmina-SCI has facilities strategically located in key regions throughout the world. More information regarding the company is available at [www.sanmina-sci.com](http://www.sanmina-sci.com).

**FireComm Communications Control Display Panel**

- 08 - Audio Channel Inputs
- 04 - Audio Channel Outputs
- 15 - Discrete Signal Inputs
- 07 - Discrete Signal Outputs
- 02 - Selectable Microphone Pre-amp Inputs
- 01 - Binaural Earphone Driver or 2 Monaural
- 01 - Call Network Bi-directional Analog Interface
- 02 - 1394b Ports (Data/Digital Audio Ports)
- 01 - Active Noise Reduction Power Source
- 01 - Remote Output Power Source
- Full Color 32-Bit, 4"x3" Backlit LCD Display
- 01 - TIA/EIA-485 Port (Data/Digital Audio)
- 01 - TIA/EIA-232 Factory Test Port
- 01 - CAN-bus Port
- 50 ms Hold-up

**FireComm Public Address Amplifier**

- 250 Watts RMS Audio Power
- Full Bridge Differential Output – Class D
- 600Ω Differential Input
- 115 VRMS Input Power
- Redundant Power and Amplifier Modules
- Over-Current and Over-Temperature Protection
- I/O Status Signaling



C-27J



C-130J



CV-22



AH-64D



CH-53K



F-15C/D



**SANMINA - SCI®**

Sanmina-SCI Defense & Aerospace Systems

+1 256 882 4569  
DAS@sanmina-sci.com

For more information on Sanmina-SCI Defense & Aerospace Systems products and services, visit [www.sanmina-sci.com/das](http://www.sanmina-sci.com/das).