# AIRCRAFT AVIONICS

**DCU**
**DATA CONCENTRATOR UNIT**

AIRCR

**SCI**

**PLATFORMS**:    MH-60M | MH-60T | VH-60N | UH-60M | MH-47G | CH-47F | MH-65E | VH-3D |

# MANAGING MISSION SUCCESS

## Powerful data concentration for any Aircraft Management System

Today's advanced aviation platforms produce an abundance of data about every facet of every operation. With the mission on the line, modern aircrews can depend on SCI™ Technology's Data Concentrator Unit (DCU) to manage it all.





*SCI Technology's Data Concentrator Unit (DCU) provides a single, high-density conversion interface for any Aicraft Management System.*

### Every Facet of Every Mission

Compact, lightweight and low-powered, the DCU provides a single, high-density conversion interface for any Aircraft Management System (AMS). Due to its flexible design, the DCU works seamlessly with an array of inputs and outputs from an aircraft's equipment and sensors, including discrete, analog and avionics bus data.

Originally designed for the Army's Common Aviation Architecture System (CAAS), the DCU is undergoing changes that maintain its currency while adding Ethernet and other future interfaces.

### Fully Qualified, Built to Last

Originally designed for the Army's Common Aviation Architecture System (CAAS), the DCU is mature unit that is proven, reliable and widely fielded on a variety of platforms. Viability and currency have been maintained through SCI-supported obsolescence management and refresh efforts.

The DCU is fully qualified to MIL-STD-810, MIL-STD-704 and MIL-STD-461 as modified by ADS-37A-PRF. The DCU also meets the lightning requirements of RTCA/DO-160-22, and is manufactured to MIL-E-4400, Class 1A.

The DCU can store up to 32 different configurations in its non-volatile memory. Each configuration is accessible by either the AMS or built-in configuration straps. In a typical setup, two connected DCU units work in parallel to provide a fault-tolerant system for collection and distribution of inputs and outputs.

### DCU Features/Benefits

› 270+ input/output (I/O) channels
› MIL-STD-1553B interface
› ARINC-429 interfaces
› KY-58 and KY-100 control interfaces
› RS-422 and RS-232 interfaces
› 32-bit RISC processor
› 136 KB of SRAM
› 2 MB of flash memory
› 32 KB of auto-store
› Built-In-Test
› 115VAC or 28VDC power
› MIL-C-38999 connectors
› MIL-STD-461 and MIL-STD-810
› MIL-E-4400, Class 1A
› ADS-37A-PRF
› RTCA/DO-160
› Voice warning option; IWCA (V)
› Support for parallel operation
› Field-programmable
› Stores 32 user configurations

**SCI**