

Cockpit Control and Display System



Description

The CCDU-2000J is a consolidated cockpit display and control unit with engineering unit processing (EUP) and display capability. The CCDU-2000J consists of three functional sections:

- MFD-2000J - Multi-Function Display
- CDC-2000J - Cockpit Display Control (Control Panel)
- ICC-2000J - Integrated Cockpit Control

Each section is housed in a separate enclosure. Interconnections among the three sections are implemented using a simple serial interface for data interchange. Other interfaces between boxes are used as appropriate to provide required interconnections. The MFD-2000J consists of a 3.5-inch LCD display and two pushbutton switches that are matched to soft menu choices displayed on the LCD screen by the ICC-2000J EUP. The CDC-2000J acts as a Control Panel for the system. This Control Panel consists of the following:

- 10 switch matrix that provides operator and external control capabilities
- 4-digit 7-segment display for system or external numeric information
- recessed Format Select push-wheel switch
- recessed connector socket providing CAL input connections
- system setup RS-232 connection
- BIT (Built In Test) LED

The ICC-2000J is the control element of the CCDU-2000J. It contains the intelligence and control to drive the LCD panel and to communicate with the functions in the CDC-2000J and MFD-2000J. The ICC-2000J contains a Pentium class card PC that executes the control of the CDC-2000J and MFD-2000J. In addition to CCDU-2000J control functions, the ICC-2000J can act as an Engineering Unit Processor.

Applications

- Flight Test Instrumentation System
- Vehicle Development

Features

ICC-2000J

- 586 PC Core Processor
- 4 Serial Ports
- VGA display output
- Composite Video Output
- CAIS Remote DAU function
- Frame Correlator function
- MFD-2000J and CDC-2000J Interfaces
- General Purpose I/O
- Dual function CDC-2000J Lamp Power Control

CDC-2000J

- 10-switch matrix capable of Full Brightness or Night Vision Imaging System (NVIS) Dimming
- DAS Format Pushwheel
- Switch contacts and LEDs user accessible
- Serial Bus connection to ICC-2000J
- CAL and Format isolated external outputs for DAS use
- RS-232 Serial input port 4-digit, 7-segment display

MFD-2000J

- 3.5 inch diagonal LCD display
- 2 soft-function push buttons
- Standard VGA signal input
- Serial Bus connection to ICC-2000J

Revision 05/11/2015

CCDU-2000J Datasheet

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CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

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