

Cockpit Control and Display Unit



Features

ICC-2000

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

CDC-2000

- 10-switch lighted user switch matrix
- DAS Format Pushwheel
- Switch contacts and lamps user accessible
- Serial Bus connection to ICC-2000
- CAL and Format isolated external outputs for DAS use
- RS-232 Serial input port access to CCDU-2000
- Lamp dimming capability
- 4-digit, 7-segment display

MFD-2000

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

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CCDU-2000 Datasheet

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Description

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

- MFD-2000 - Multi-Function Display
- CDC-2000 – Cockpit Display Control (Control Panel)
- ICC-2000 – 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-2000 consists of a 5-inch LCD display and five pushbutton switches that are matched to soft menu choices displayed on the LCD screen by the ICC-2000 EUP. The CDC-2000 acts as a Control Panel of the system. This Control Panel consists of the following:

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

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

Applications

- Flight Test Instrumentation System
- Vehicle Development



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