

# KDU-44

KEYBOARD DISPLAY UNIT

4" X 4" AMLCD  
LARGE DISPLAY AREA

ARINC-739A  
PROTOCOL SUPPORT

RTCA DO-178B  
COMPLIANT SOFTWARE





# KDU-44

## KEYBOARD DISPLAY UNIT

KDU-44 Keyboard Display Unit is a color display using Active Matrix Liquid Crystal Display (AMLCD) technology, with an active display area of 4 by 4 inches.

KDU-44 is designed to fully comply "ARINC-739 Multi-purpose Control and Display Unit" standard. It can transmit, receive and display data and status information from subsystems that are compatible with ARINC-429 and ARINC-739 standards.

KDU-44 provides Man Machine Interface (MMI) for operator data entry, avionics subsystem mode selections and subsystem status displays (flight, navigation, communication, weapon management) in accordance with ARINC-739 protocol.

### Display Specifications

- Display Type : Color Active Matrix LCD
- Display Area : 4" x 4"
- Resolution : 480 x 480 (120 PGPI)
- Display Color : 262144 colors
- Viewing Envelope : +/- 45° horizontal +/- 60° vertical
- Luminance Range : 0.04 fL - 160 fL
- NVIS Compatibility : MIL-L-85762A, Class B  
MIL-STD-3009

### General Specifications

- ARINC-739A Protocol Support
- Wide Active Area
- NVIS Class B Compatible
- Alphanumeric Keys
- Compact Design
- Easy to Integrate
- Ideal Match for Mission Computer Applications
- RTCA/DO-178B Compatible Software

### Technical Specifications

- Interfaces : ARINC-429 Serial Communication  
Discrete I/O Interfaces  
RS-422 (Maintenance Interface)  
RS-232 (Maintenance Interface)
- Operating Voltage : 28VDC
- Power Consumption: 40W (Operating)  
80W (Heaters On)

### Qualification

- Environmental Conditions : MIL-STD-810
- EMI/EMC : MIL-STD-461
- Power : MIL-STD-704

### Physical Specifications

- Dimensions : 190.5 mm (H) x 146 mm (W) x 114 mm (D)
- Weight : < 2.5 kg
- Cooling : Natural Convection