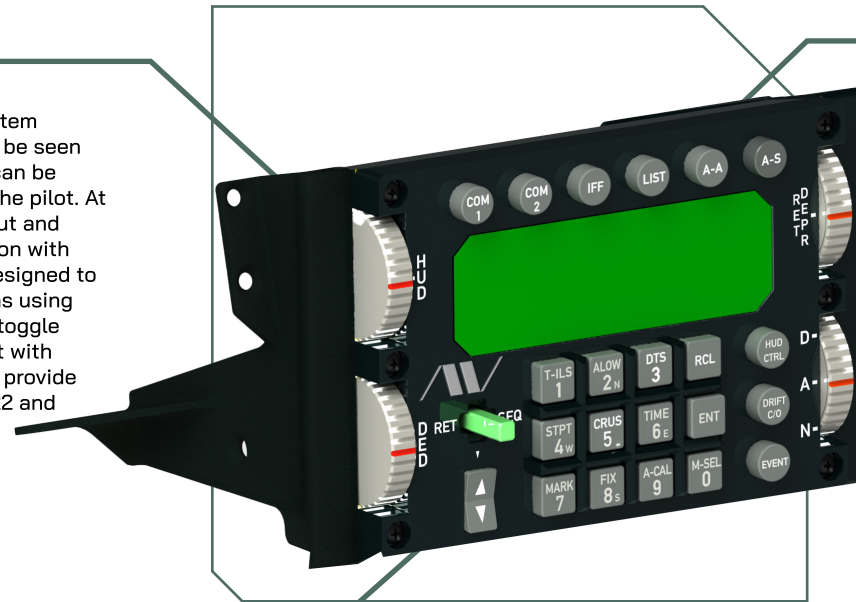




Overview

UFCP is the unit on a platform where the system information and warnings on the aircraft can be seen and detailed information about the mission can be entered into the aircraft mission system by the pilot. At the same time, it can provide both power input and communication connection with its connection with Head-Up Display. The UFCP is specifically designed to enable pilots to control aircraft (A/C) systems using buttons, thumbwheels, rocker switches, and toggle switches. UFCP's keyboard will be consistent with function keys and alphanumeric keys. UFCP provide data transfer with peripheral units with RS422 and RS485 serial communication protocol.



Key Features

- High Resolution, High Luminance, Wide Viewing Angle, and Wide Dimming Range Display
- Bezel Keys for User Data Input
- Dimmable NVIS Green A Bezel Lighting
- HUD brightness control with HUD thumbwheel
- HUD day, night and auto mode control with DNA thumbwheel that has the tristate position
- HUD symbology position control with RETDEPR thumbwheel
- Display brightness control with DED thumbwheel
- 28 Column x 5 Row Character Positions for the Display
- Embedded Character Set with Different Types (Small/Large, Normal/Inverse, Blinked/Not Blinked, etc.)
- Single LRU Compact Design and Easy to Integrate
- PBIT/IBIT/CBIT and LOG Capability
- DO-254 DAL C Compliant

Use Case

- UFCP equipment can be used on Canopy-type and other aircraft types with HUD unit
- Master mode selection of mission
- Control of communication, navigation, and identification IFF (CNI)
- Data entry of weapons delivery related information
- HUD power/intensity control



Specifications

Interfaces

- 2xRS-422 and 1xRS-422 Backup Serial Communication Interfaces
- Discrete Interfaces

Display Specifications

- Display Type: LED Display
- Display Active Area: 89.4 x 25.4 mm
- Resolution: 64 Rows x 224 Columns
- Display Color: Yellow-Green
- Viewing Envelope: +/- 45° horizontal +/- 45° vertical
- Luminance Range: 0.1 FL - 250 FL
- Sunlight Readable
- NVIS Compatibility: Compliant with both MIL-STD-85762 & MIL-STD-3009 Class B

Electrical and Mechanical

- Power Interface
 - ◉ 28VDC Compatible with Aircraft Electric Power
- Characteristics (MIL-STD-704F)
 - ◉ Operate Voltage range of 18±0.5 Volts to 32±0.5 Volts
- Mechanical Interface
 - ◉ Weight: < 1.25kg
 - ◉ Dimension (L x W x H) (mm): 106.65 x 143.2 x 48.55

Environmental

- Operating Temperature: -15°C to +55°C
- Operating Altitude: 45,000ft

Regulatory Specifications

- RTCA/DO-254
- AMC 20-152A
- RTCA/DO-160G
- MIL-STD-810G
- MIL-STD-704F
- MIL-STD-461F
- MIL-STD-3009
- SAE-AS-7788

Current Status

TRL 5/9 ■■■■■□□□□

