

TCCU-810

TOUCHSCREEN COCKPIT
CONTROL UNIT

HIGH RESOLUTION
TOUCH SCREEN

SMART COCKPIT
CONTROL UNIT

SINGLE LRU
COMPACT DESIGN





TCCU-810

TOUCHSCREEN COCKPIT CONTROL UNIT

Touchscreen Cockpit Control Unit (TCCU-810) is a primary cockpit control interface between the pilot and the aircraft, which provides flight planning and flight navigation management system packaged into one Line Replaceable Unit (LRU).

TCCU-810 incorporates an 8" x 10" inches AMLCD display, multiple Single Board Computers, internal graphics generation, video and I/O processing capabilities and touchscreen controls. TCCU-810 has the capability of generation of display formats, using data obtained from system interfaces to the TCCU-810.

TCCU-810 provides primary control of flight and cockpit management information capabilities for the operator with the capability of selection of various display page formats via touchscreen interface.

TCCU-810 supports the analog and digital input/output interfaces, USB 2.0, Ethernet and MIL-STD-1553 interface. The Ethernet interface allows operational software modification without removal of the system from the installed position.

TCCU-810 includes the Display / Mission Management Operational Flight Program (OFP), i.e. software which performs complete flight management functions, data management and subsystems control functions for avionics systems to be interfaced with TCCU-810.

General Specifications

- Display Port 1.1A Digital Video Input
- Display Port 1.1A Digital Video Output
- RS-170 Analog Video Input
- Ethernet Interfaces
- USB 2.0 Interfaces
- High Resolution
- High Luminance
- Wide Viewing Angle
- Wide Dimming Range
- NVIS Class A and B Compatible
- Ethernet Loading
- Touchscreen Controller
- Single LRU Compact Design
- Easy to Integrate

Display Specifications

- Display Type : Color Active Matrix LCD
- Display Area : 9.7" x 7.3" (12.1" diagonal)
- Resolution : 1360 x 1024
(140 color groups per inch)
- Display Color : 16.2 million colors
- Viewing Envelope : +/- 35° horizontal
+15/-30° vertical
- Luminance Range : 0.03 fL - 300 fL
- NVIS Compatibility : MIL-STD-3009, Class B

Interfaces

- Communication Interfaces : MIL-STD-1553, ARINC-429, ARINC-708, Ethernet, USB 2.0, RS-422, RS-485, RS-232, discrete interfaces
- Video : Display Port 1.1A Digital Video, RS-170 analog Video
- Input Power : 28 VDC

Qualifications

- MIL-STD-810
- MIL-STD-461
- MIL-STD-704

Physical Specifications

- Dimensions : 317 mm (H) x 245 mm (W) x 217 mm (D)
- Weight : < 14 kg