

C-27J Integrated Cockpit



Color Multi-Function Display Unit (CMDU)

- High Resolution XGA-122 CGPI, 6-BIT color display
- Hemispherical, high contrast $\pm 60^\circ$ viewing angle
- Luminance range from 0.03 to 200fL w/NVIS option
- Digital TAXI Bus Video, MIL-STD-1553 bus interface



Communication Navigation Radio Panel (CNRP) Single Avionics Management Unit (SAMU)

- High Resolution 120 CGPI, 8-BIT color display
- Hemispherical, high contrast $\pm 60^\circ$ viewing angle
- Luminance range from 0.03 to 280fL w/NVIS option
- Multiple video, analog, discrete, synchro, resolver, bus interface options



communications
Display Systems

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Specifications

Color Multi-Function Display Unit (CMDU)

Optical Performance

- Viewable Area:** 6.2" x 8.3"
- Addressability:** Flexible Autoscaling
- Resolution:** 1024 x 768, 122 CGPI (XGA)
- Gray Levels:** 64 gray shades per color
- Luminance:** 0.03 fL to 220
- Viewing Angles:** ±60°H, -20°V, +50°V
- Contrast Ratio:** Greater than 5:1 over entire viewing cone
- NVIS:** Gen. III, Type I/II, Class A/B

Physical Description

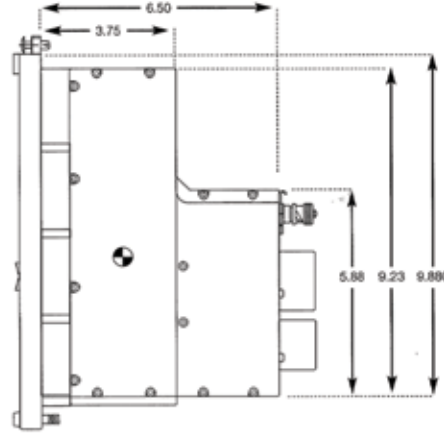
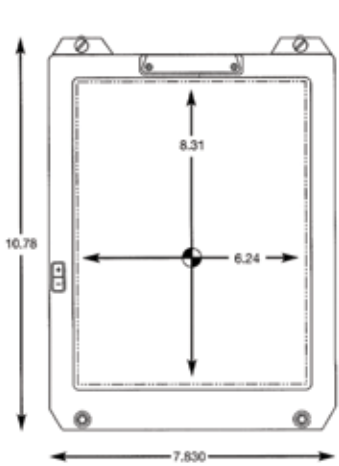
- Dimensions:** 7.83"w x 10.78"h x 6.5"d"
- Weight:** Nominal 14.0 lbs.
- Cooling:** Internal Fan
- Primary Power:** 28 VDC, 120 Watts nominal
- Mounting:** Adaptable
- Bezel Config.:** EFIS, MFD, Custom
- I/O Connector:** STD M38999 Series III

Functional Description

- Video Interface:** Digital TAXI Bus
- Signal Interfaces:** MIL-STD-1553B
- Optional:** Inclinator
- Maintenance Port:** RS-232
- Video Out:** NTSC

Environmental Performance

- Temperature:**
 - Operating -54°C to +71°C
 - Storage -57°C to +85°C
- Shock:** 15G op, 30G CS
- Vibration:** Method 514.2 MIL-STD-810C
- Altitude:** 50,000 ft.
- Reliability:** 5,000 Hours MTBF
- EMI/EMC:** MIL-STD 461/462



Communication Navigation Radio Panel (CNRP) Single Avionics Management Unit (SAMU)

Optical Performance

- Viewable Area:** 4" x 3"
- Addressability:** Flexible Autoscaling
- Resolution:** 500 x 380
- Gray Levels:** 256 Gray Shades
- Luminance:** 0.03 fL to 280+ fL
- Viewing Angles:** ±60°H/V
- Contrast Ratio:** Greater than 8:1 over entire viewing cone
- NVIS:** Gen. III, Type I/II, Class A/B

Physical Description

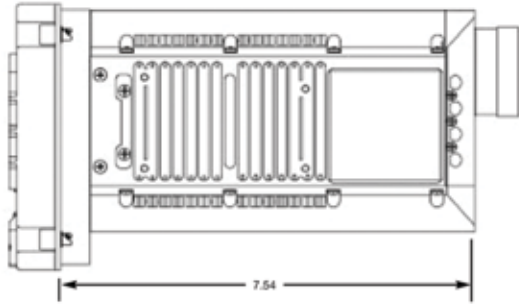
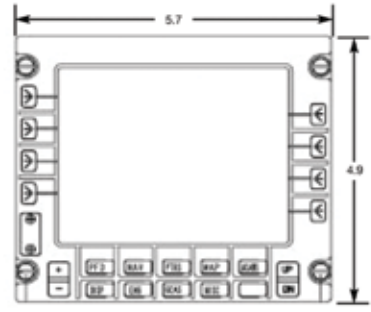
- Dimensions:** 4 x 5 ATI Chassis
- Weight:** Nominal 7.0 lbs.
- Cooling:** Internal Fan
- Primary Power:** 28 VDC, 5v Bezel 56 Watts maximum
- Mounting:** Adaptable
- Bezel Config.:** EFIS, MFD, Custom

Functional Description

- Signal Interfaces:**
- Standard:** MIL-STD-1553B
- Optional:** ARINC 429/419/575 ARINC 453/708A (2) ARINC 561/568 (2) RS-232/422/485 (2) Discretes 30/8 (Config) Analogs (40/7)

Environmental Performance

- Temperature:**
 - Operating -54°C to +71°C
 - Storage -57°C to +85°C
- Shock:** 15G op, 30G CS
- Vibration:** 514.4 Cat4, Prl MIL-STD-810C
- Altitude:** 70,000 ft.
- Reliability:** 7,000 Hours MTBF
- EMI/EMC:** MIL-STD 461/463



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