

Control Display Unit

Designed as a drop-in replacement for current CRT-based displays, this CDU provides a reduction in weight and envelope size, increased reliability, and a high degree of customization via software.

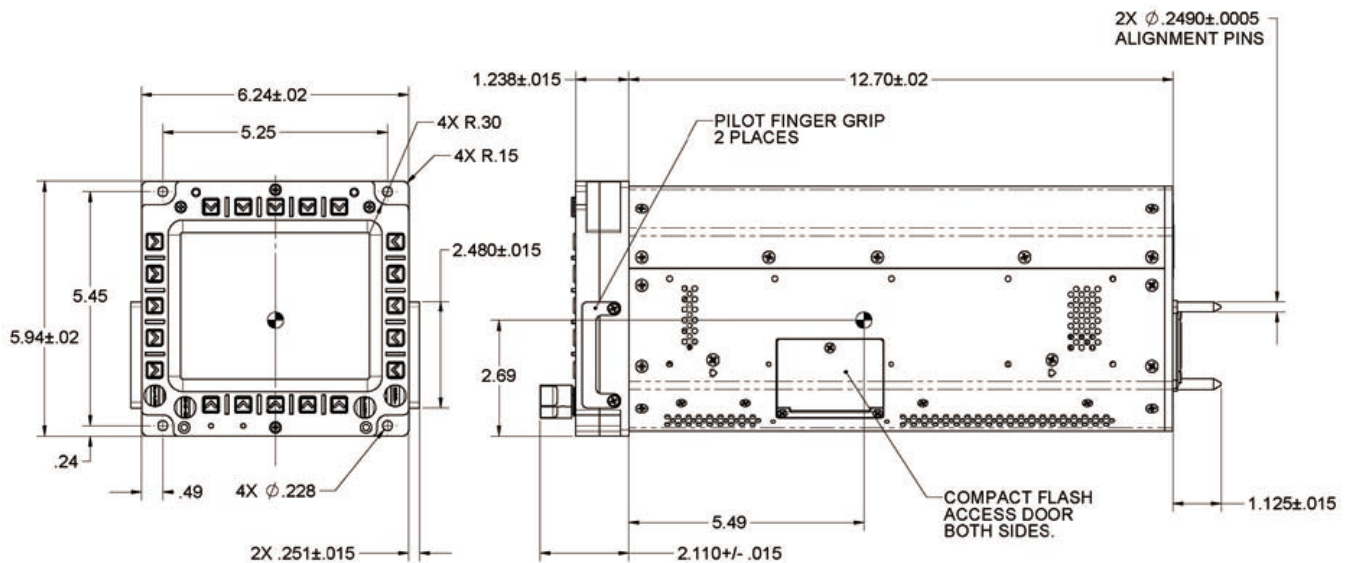
The CDU is designed to display radar and navigation data on a full-color, ruggedized, active matrix LCD (AMLCD) with LED backlight. An interactive touch-screen facilitates pilot interaction with the CDU.

Standard interfaces include MIL-STD-1553, RS-422, Ethernet, USB, and discretes. Additional interfaces (ARINC-429) can be supported by adding PC-104/PC-104+ modules. Video inputs (NTSC, RS-170, DVI) and the ability to drive a second display are also available.

Two compact flash slots are provided for data storage.

Software-configurable bezel buttons (20) are backlit with full dimming capability.





General Data

Part Number	19000-02
Power	28 V DC input Built-in power surge protection
Dimensions	14.1" L x 6.25" W x 6.0" H envelope
Temperature Stability	-40°C to +80°C
Man-Machine Interfaces	Interactive touch-screen Software-configurable bezel buttons

Display

Type	Full-color AMLCD display utilizes LED backlight for high reliability
Panel Diagonal	5.7 inches
Resolution	640 x 480
Viewing Angle	80° horizontal / 40° vertical
Aspect Ratio	4:3
General	High-contrast display for improved visibility under bright ambient conditions Backlight dimming control

Video

Signal	Graphics processor with video interface (RS-170, NTSC, DVI)
Radar Interface	APQ-159 (V)-3 and (V)-5 radar systems
Navigation Interface	Configured as bus-controller Communication with inertial navigation system over MIL-STD-1553 bus

Embedded PC Capability

CPU	x86 architecture
Compatible Operating Systems	Linux, Windows® XP and XPe, Green Hills®, VxWorks®
Memory	2 compact flash slots (4 GB, upgradeable to 16 GB)
Communication Ports	RS-422 Ethernet Discretes 1 dual-redundant MIL-STD-1553 communications bus USB port (providing ability to load charts and maps)