



GE Aerospace

ADTC Mk-2

Advanced Data Transfer Cartridge Mk-2

Flight proven, high-assurance data transfer cartridge for the world's most advanced tactical fighters

GE Aerospace has over 40 years' experience in the design, integration and manufacture of data transfer and storage systems that are fielded on a multitude of military platforms across the globe including the F-16, F-22, and F-35. GE is committed to providing the most reliable and innovative equipment on the market.

GE Aerospace's Advanced Data Transfer Cartridge Mk-2 is a flight proven, high-assurance Line Replaceable Unit (LRU) for use on the world's most advanced tactical fighters. The ADTC Mk-2 incorporates the latest in processor and memory technologies while providing full backwards compatibility with legacy systems.

The ADTC Mk-2 incorporates a dual core ARM architecture processor. The ADTC Mk-2 offers the industry's most reliable storage through Single-Level Cell Error Detection and Correction (EDAC) memory, which is expandable up to 256 (G)Bytes). In addition, the Mk-2 offers faster download of data to off-board mission planning ground station via a gigabit Ethernet interface. The ADTC Mk-2 seamlessly supports legacy interface protocols of prior designs.

Recognizing the need to be able to reliably operate in harsh environments, the ADTC has been qualified to MIL-STD-810, MIL-STD-461, MIL-STD-740, and designed to perform over an extended temperature through convection. The ADTC implements internal Built-In-Test (BIT) to autonomously detect and report a minimum of 98% of all functional failures providing complete autonomous end-to-end system checks, fault detection (FD), fault isolation (FI), and performance monitoring of the equipment.



Specifications

Features

Field Upgradeable
128 Gigabytes Mass Memory
expandable to 256 Gigabytes
32 Gigabytes Mission Memory
expandable to 256 Gigabytes
1.5Ghz Dual Core ARM processor
1 Gigabyte double data rate RAM
App hosting and data processing
VxWorks Operating System

Environments

-54° to 85° C Storage
-40° to 71° C Operating

SWAP

5 VDC < 8 W typical
< 5.0 pounds
4.74" W x 1.62" H x 7.5" D

Supported Protocols

PCI
Gigabyte Ethernet
iSCSI

MTBF

>7,700 hours (predicted)

MTTR

<12 minutes

Built-in-Test (BIT)

Power-On Self-Test (POST)
Initiated (IBIT)
Continuous (CBIT)



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