**DATA TRANSFER UNIT**

HIGHLY RELIABLE AND MULTI-CAPABLE

Providing data transfer, storage and video recording from one small unit

The ability to collect, store and transfer data quickly and reliably is critical to the safety and success of every mission. Collins Aerospace data transfer unit is an intelligent microprocessor-based unit that permits access to aeronautical worldwide databases, as well as mission specific data, using file transfer protocols such as http, SAMBA, NFS, and TFTP. The DTU-7100 is the latest addition in our product line that includes the DR/DC-902, DR-200 and DTU-7000.

Serving as the mass memory storage for applications such as Dig Map, Collins data transfer unit is capable of accessing and transferring map data files at sufficient speeds, as well as reading the data in real time from compact flash cards. As memory needs grow, the data transfer unit can increase the size of flash cards up to 548 GB total memory capacity.

Additionally, our data transfer unit is capable of video and audio recording and playback. Video data is compressed using MPEG 2 format on the compact flash cards. It can be played back on the aircraft or any standard desktop/laptop computer. This video capability has enabled several platforms to eliminate separate video recorders, saving weight and power.
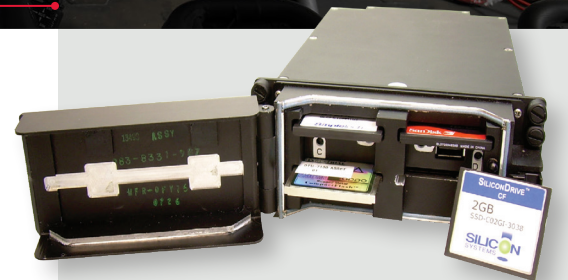
KEY FEATURES AND BENEFITS

- Suitable for use on rotary-wing and fixed-wing aircraft

- Ruggedized design suitable for harsh environments

- No cooling required

- High speed data purge capability

- Digital signal processor for video/audio compression and decompression

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ADDITIONAL FEATURES

- Compatible with our Flight2™ and CAAS open architecture
- Driven by a Power PC processor
- Internal processor card with Ethernet node
- MPEG 2 video CODEC with RGB (synch-on-green) capability
- Audio CODEC
- DZUS mounting
- Internal video compression (MPEG 2)
- Analog audio I/O
- Analog video I/O
- Four compact flash slots:
    - Two Type I only slots
    - Two Type I or II slots
- USB 2.0 port for file transfer
- Two ports 10/100/1000 Base-T Ethernet
- Two ports 10/100 Base-T Ethernet
- One selectable RS-422 or RS-232 serial port
- Compact flash zeroize
- Power-up BIT, continuous and IBIT
- Provisions for a user-selectable RS-422/RS-232 interface

EMI/EMC CAPABILITIES

- ADS-37A-PRF
- MIL-STD-461E
- RTCA DO-160D lightning

PHYSICAL DESCRIPTION

Model	DTU-7100
Height	2.25 in.
Depth	6.9 in. (DZUS rail to the back of the unit)
Weight	4 lbs max
Power	30 W 28 VDC input MIL-STD-704A (modified)

EXTERNAL CONNECTOR J1

- DTU-7100: MS27508E24F35P
- Mating connector: MS27484T24F35S

ENVIRONMENTAL CAPABILITIES

Temperature	-40° C to 55° C operating 71° C intermittent operation -55° C to 85° C storage
Rain	MIL-STD-810F, Method 506.4, Procedure III - Drip
Humidity	MIL-STD-810F, Method 507.4
Salt-spray/fog	MIL-STD-810F, Method 509
Sand/dust	MIL-STD-810F, Method 510.4, Procedures I and II
Explosive atmosphere	MIL-STD-810F, Method 511.4, Procedure I
Sine-on-random	MIL-STD-810F, Method 514.5, Procedure I
Vibration	Category 14 – Helicopter
Shock, operational	MIL-STD-810F, Method 516.5, Procedure I
Shock, crash safety	MIL-STD-810F, Method 516.5, Procedure I
Gunfire vibration	MIL-STD-810F, Method 519.5

Specifications subject to change without notice.

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