

# DTU-7100 Data Transfer Unit



Highly reliable data transfer device, mass storage unit, map database server, video recorder in one small form factor package.

The DTU-7100 is the latest product in the Rockwell Collins data transfer product line that includes the DR/DC-902, DR-200, and DTU-7000. The DTU-7100 Data Transfer Unit is an intelligent microprocessor-based unit that permits access to aeronautical worldwide data bases, as well as mission specific data, using industry standard file transfer protocols such as http, SAMBA, NFS, and TFTP.

The DTU-7100 can serve as the mass memory storage for applications such as Dig Map, capable of accessing and transferring the map data files at sufficient speeds to read the map data in real time from industry standard compact flash cards. As memory needs grow for the map data, the DTU can accommodate this growth without change, as the compact flash cards also continue to increase in size over time, up to 548 GB total memory capacity.

Additionally, the DTU-7100 is capable of video and audio recording and playback. Video is compressed using industry standard MPEG 2 format on the compact flash cards. Video can be played back on the aircraft or any standard desktop/laptop computer. This capability has allowed

several platforms to eliminate a separate video recorder, saving weight and power.

## KEY BENEFITS

- › Suitable for use on both rotary wing and fixed wing aircraft
- › Based on our Flight2™ open architecture, the DTU-7100 is driven by a Power PC processor and communicates via two 10/100/1000 Base-T Ethernet ports and its two 10/100 Base-T Ethernet ports
- › A digital signal processor performs the video/audio compression and decompression for record and playback
- › Four compact flash slots and a USB 2.0 port available on the front panel
- › Cooled by convection—requires no cooling air
- › High speed data purge capability

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## PRODUCT HIGHLIGHTS

### Description

The DTU-7100 contains four Compact Flash (CF) slots (two slots Type I, two slots Type I/II) removable storage, one USB 2.0 port, an internal processor card with Ethernet node, a MPEG 2 video CODEC with RGB (synch-on-green) capability, one video input, one video output, audio CODEC, two analog audio inputs, two analog audio outputs and provisions for a user-selectable RS-422/RS-232 interface.

### FEATURES

- Ruggedized design suitable for harsh environments
- 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
- CF zeroize
- Power-up BIT, continuous and IBIT
- No cooling required

### SPECIFICATIONS

#### 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 V
Gunfire vibration	MIL-STD-810F, Method 519.5

### EMI/EMC CAPABILITIES

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

### PHYSICAL DESCRIPTION

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

### SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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