

etep

Airborne recorder & data acquisition system

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DT.MUX[®] Recorder Mission

THE MISSION AIRBORNE DATA RECORDER :
Until 8 to 128 GB and 1 TB solid state disk. With
real time, PCM Irig 106 transmitting (Chapter 4)

Ultra-compact recorder is weight < 2Kg it allows
to record in priority, video channel (JPEG 2000
Wavelet compression, normal or HD) and MIL
bus 1553, or PCM, Arinc 429 or RS 232 and 422.
This recorder has also, the possibility to
receive all modules of **S family** airborne
recorder



Mission Recorder

8GB to 1TB
Solid-state memory
800 Mbits/s de flow-rate.

*All Channels can be design on your special requirements.

Central Unit

1 x Ethernet channel (10/100/1000 UDP)
1 x Audio channel

4 x PCM channels (RS 232 or 422 inputs)
2 x Mil STD 1553B
2 x ARINC 429

Ultra capa board to prevent
power down

Irig 106 generator board
16 x Strain gauges channels
32 x Analog channels (Or discrete)
12 x Analog module, prog Sensitivity

HD Video mode 1080 P or I

4 x Video channels MJPEG 2000
Video scan converter
Wavelet compression

Applications

Mission uploading

Vehicle, Helicopter & aircraft pilot
training and mission debriefing

Reconnaissance and surveillance
(Aircraft, Helicopter and UAV)



Chapter 10
compliant

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Modules characteristic

IRIG B time or GPS, and audio channels

Number of channels: 1 to 2

Sample frequency by channel:
12 KHz /channel

IRIG B Channel:

400 mV to 6 V pp, 1000 Hz, 1/3 3/3 modulation

Maximum bandwidth and resolution:
5 KHz, 16 bits

Configurable inputs
impedance and inputs levels:

600 ohms or 1 M ohms
Single ended
0 - 10 Vpp

PCM and/or MIL STD 1553B

Number of channels
1 for PCM and 1 for MIL STD 1553
or 2 PCM or 2 MIL STD 1553

Minimum flow rate by channel
> 1 KHz, PCM mode

Maximum flow rate by channel
20 Mbps/Channel, PCM mode

Acquisition mode: External clock for PCM

Programmable inputs NRZ or Biphase for PCM:

TTL, Analogic ± 5 Vpp (diff or single ended), RS 422,
MIL-STD1553B,

DTS (Data Transfert system)

Allow space memory to solid state disk to record
other parameters during the mission.

1 to 4 video channels (JPEG 2000 or MPEG)

Number of channels: 1 to 4 (1 to 2 high
resolution or VGA)

Standard inputs:

- Composite PAL/NTSC
- RGB inputs
- STANAG A, High resolution or UXVGA.

Resolution and frame rate:

64x64 to 720x576
30fps (NTSC)- 25fps(PAL)
high resolution : 1920 x 1080 (FULL HD 1080p)

Compression mode:

JPEG 2000 (wavelet) encoding
Adjustable bit rate (1 to 20 Mbps) and frame rate
(1 to 25:30 image/s).

Input levels
0,1 to 10 Vpp

General characteristic

Dimensions

Height: 2.7 inches, 68 mm

Width 4.4 inches, 112 mm

Depth 3.9 inches, 100 mm

Weight ~ 0.6Kg with SSD (solid state disk)

Volume Adaptability to 3/8 ATR
0,7 litres

Temperature

In storage: - 55°C to + 85 °C
In use: - 40°C to + 71°C.

Extreme of temperature in use: - 55° C to 85° C (no
destructive)

Test MIL STD 810D method 520.0(procedure III)

Power

28Volts DC (16 to 36V)

MIL STD704 D/E

Consumption: 15 to 25 Watts (depends of configuration)
,except heating (25 w)

Vibrations and shocks

Vibrations

MIL STD 810D-E metod 514.3 (procedure 1),
0,04 g² of 5 to 1000 Hz, 1 hour per axis (3 axis)

Shocks

1/2 sinus , > 60g, 11 ms (6/2 axes)
(MIL STD 810D-E method 513.3 (proc.1&2)

Accelerations MIL STD 810E method 513.3 :
10 g (6/2 axes)

Crash test

20g on 3 axes

EMI/EMC

MIL-STD-461E

Humidity

In storage: 5% to 95% .

In use: 5% to 95 % without condensation

MIL STD 810D method 507.2 (procedure III)

Altitude and decompression:

Min: -1500 feet, max: 60,000 feet

With 12.000 feet/minute (420 Kpa/minute).

MTBF

MIL HDBK 217F **50.000 hours**

MTRR

<30 minutes



For more information,
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