D.T.MUX
Nano™ Recorder

MILITARY
MIL-STD
810 G
TESTED

Reference# **D.T.MUX-NANO**

DATA-SSD
INSERT

From 32GB to 512GB
Solid State Drive

The D.T.MUX Nano Airborne Data Recorder, is a powerful miniature unit with recoding capacity on Solid State Disk (SSD) from 32GB to 512GB, support Military Grade Encryption/Erasure and Physical Destruction. IRIG 106 Chapter 10 Compliant.

An ultra-compact and standalone airborne data logging unit, with a quick access removable media of solid state flash memory, who permit an easy data retrieval at the exploitation center. D.T.MUX Nano can be built to meet your customized configuration. This device is particularly adapted to mission use, like surveillance and reconnaissance activity

Applications

- Mission Recording
- Aircraft pilot training and mission debriefing
- Reconnaissance and surveillance
- For Fixed-wing, Rotary-wing and UAV

Ultra-compact recorder, with low weight of 1Kg (2.2lbs) it allows you to record a lot of parameters in a reduced volume. This unit is capable to record in same time Analog/Digital bus, Video/Audio data.

These parameters can be multi video channels, until Ultra HD 4K 60fps Resolution/ full HD 1080/720p/I or lower (MJPEG 2000/H.264/H.265 compression) and MIL-STD 1553, ARINC 429/717/573, PCM, CAN Bus, Gigabit Ethernet, RS 232/422 and Analogic channels with signal conditioning (Strain gauge, ICP, Thermocouple…)
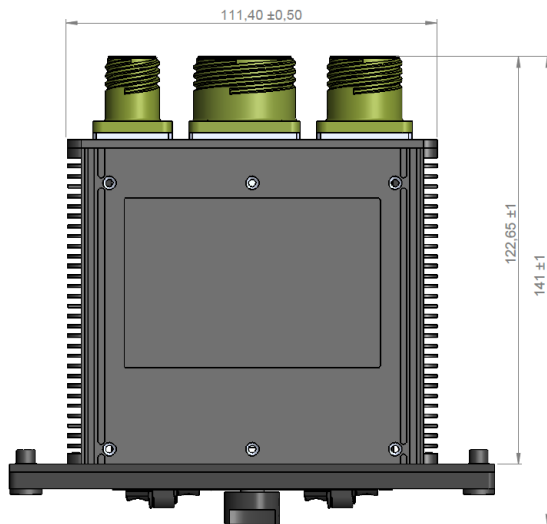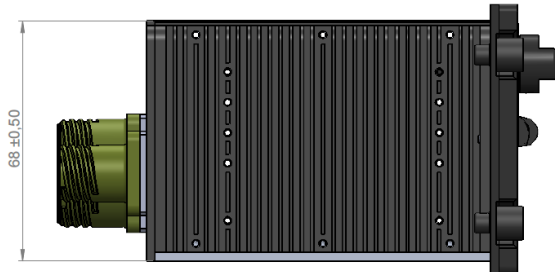
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D.T.MUX™
RECORDER SYSTEM
TECHNOLOGY

*All Channels can be design on your special requirements.

MECHANICAL

	Specification	Remark
Size	141 x 111.4 x 68 mm	± 1mm
Weight	≈ 1Kg	≈ 2.2lbs
Connectors	MIL-DTL-38999	Serie III
Mounting	DZUS or Fix plate	Customizable

68 ±0.50

111,40 ±0,50

122.65 ±1

141 ±1

ELECTRICAL

Input Voltage	28Vdc (16 to 36Vdc)	
Power consumption	≈ 12 to 25 watts (28Vdc)	
Power Interruption	≈ 60 to 100ms	
Standard	MIL-STD-704F	

ENVIRONMENTAL

	Specification	Remark
Temperature	-40°C to 71°C	Operating
	-55°C to 95°C	Storage
Cooling	Passive	Convection
Humidity	95%	Non-Cond
Vibration	5Hz to 2KHz	6.29 g RMS
Shocks	60g 11ms	Operating
Acceleration	20g linear 3 axis	Operating
Altitude	+ 60,000 ft	Operating
Decompression	420Kpa/minute	Operating
MTBF	> 50,000 hours	Computed
EMI	MIL-STD-461	Rev F

STANDARD FUNCTIONALITY

	Specification
Gigabit Ethernet	Configuration/Control Data download and Streaming
Time synch	GPS Antenna input / Irig B / PTP v2
Audio	One included
Recording	IRIG 106 Chapter 10 / DTMUX format
COM port	RS-232 Configuration/Maintenance
LED	Status Led / Status output

D.T.MUX NANO CODE COMPOSITION

Mounting Type
D : DZUS Cockpit
P : Fix Plate
X : Customized

DT-MUX-NANO-**V4K1**-**15532R**-**PCM2**-D

Group 1   Group 2   Group 3

SELECTABLE CHANNELS

TYPE	CODE	Max Channels		
MIL-STD-1553	**1553**	2R (4)	2R (4)	0
ARINC 429	**A429**	12	12	8
ARINC 717	**A717**	12	12	8
ARINC 573	**A573**	12	12	8
PCM	**PCM**	4	4	4
RS232/422	**RS**	12	12	8
CAN	**CAN**	8	8	8
DISCRETE	**DS**	24	24	12
ANALOG	**LOG**	16	16	8
VIDEO SD	**VSD**	2	2	2
VIDEO HD	**VHD**	2	2	0
VIDEO 4K	**V4K**	1	1	0

System can be design following your special requirement.
You can select number of channel desired **from 0 to max value.*

STORAGE SSD CARTRIDGE

SSD-**64**-**DE**-**QE**-**0**-**N**

Storage Capacity	**32** / **64** / **128** / **512**
Data Encryption	**DE** / **0***
Quick Erase	**QE** / **0***
Physical Destruction	**PD** / **0***

*0= None

SSD for configuration is also available
PN# **SSD-CONF-N**

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TECHNOLOGY