D.T.MUX™ NANO

MILITARY
MIL-STD
810 G
TESTED

Reference: DT-MUX-NANO

The **D.T.MUX Nano** is a **powerful, miniature airborne data recorder**, available in **three form factors**, with **solid-state storage from 64 GB up to 2 TB**. It supports **military-grade encryption, secure data erasure, and physical destruction** capabilities, ensuring the highest level of data protection. The system is fully **IRIG 106 Chapter 10 compliant**.

Designed as an **ultra-compact and standalone unit**, the Nano features **quick-access removable SSD media** for fast and simple data retrieval at mission or exploitation centers.
The unit can also be tailored to **custom configurations**, making it ideal for demanding **surveillance, reconnaissance, and mission recording applications**.

Applications

- Mission recording and debriefing
- Pilot training support
- Reconnaissance and surveillance
- Integration on fixed-wing, rotary-wing, and UAV platforms

Despite its small footprint (**only 1 kg / 2.2 lbs**), the Nano delivers **multi-source recording** in real time, covering both **data buses and video/audio streams** simultaneously.

Key Features

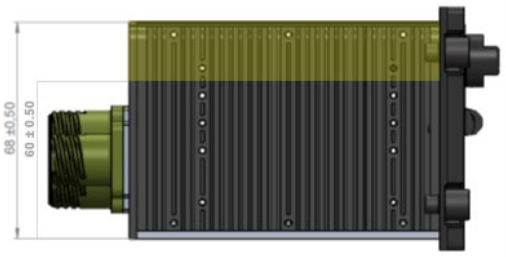
- **Ultra-compact (1 kg)** with minimal footprint
- **High-capacity removable SSD**: 64 GB to 2 TB
- **Military-grade security**: encryption, secure erase, physical destruction
- **Flexible multi-source recording**: digital buses, video, audio, analog sensors
- **IRIG 106 Chapter 10 compliant**
- **Customizable configurations** for specific mission requirements

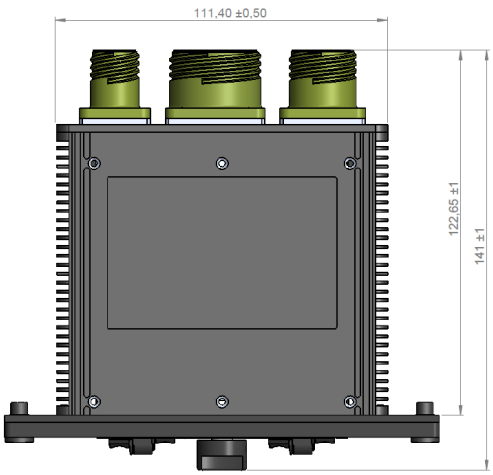
etep

D.T.MUX NANO™

MECHANICAL

	Specification	Remark
Size (S)	141 x 111.4 x 68 mm	Standard
Size (L)	141 x 111.4 x 60 mm	Low profile
Size (R)	141 x 111.4 x 80 mm	CP option
Weight	≈ 1Kg	≈ 2.2lbs
Connectors	MIL-DTL-38999	Serie III
Mounting	DZUS or Fix plate	Customizable





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

PART NUMBERING GUIDE

Profile Version
Standard: **S**
Low profile: **L**
With Crash proof cartridge (CP): **R**

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

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

Group 1 * | **Group 2** | **Group 3**

SELECTABLE CHANNELS

TYPE	CODE	Max Channels**		
MIL-STD-1553	**1553**	**2R** (4)	**2R** (4)	**0**
ETHERNET (GbE)	**ETH**	**2**	**2**	**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.
**Low profile version only support "Group 1"*
***You can select number of channel desired **from 0 to max value**.*

STORAGE CARTRIDGE

SSD-512-DE-QE-0-N

Storage Capacity	**32 / 64 / 128 / 256 / 512 / 1TB / 2TB**
Data Encryption	**DE / 0***
Quick Erase	**QE / 0***
Physical Destruction	**PD / 0***
Crash Proof	**CP / 0***

**0= None*

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

etep

www.etep.com / Email: contact.us@etep.com