

IF Acquisition and restitution recorder (IRIG106 Chapter 10 compliant)

1 or 2 channels 20MHz bandwidth/ch - Irig B and voice:

This device is our IF D.TMUX recorder, new generation, with removable disc in "raid 0" mode

This D.T MUX does the recording of 1 channel in same time, Irig B and phone.

The replay is available in many type of files for show on personal computer (windows XP necessary) and for others exploitations. The AIT 3 archiving is possible on the same device.

The system is composed with:

A 19", 4U box.

One central unit PC, The bus interfaces is "PCI express" to authorized 1 card, PCI express, at 60 Mega sample by second with a translation system from IF 70 MHz central frequency.

The operating system is Windows XP pro. And the software is "Universal acquisition system".

The central unit includes a dual Core2 duo processor 2,6Ghz with 1 G/byte of ram memory.

One flat screen of 8.4", 1024 by 768, with a tactical screen in front face.

Serial ATA bus is used for the different drives.

One channel board, (max. 60 M sample / second by channel, 8 bits (50dB dynamic))

1 removable pack disc (2 x 600 GB, raid 0) for one duration at 20 MHz bandwidth of 5 hours min.

The phone (with micro and headphones) and Irig B or GPS time input are including in the recorder. External archive on AIT3 tape or LTO (Linear Tape-Open) (option)

Power supply 28 V DC or 100V to 240 Volts 50 Hz or 60 Hz

ETEP490A: 1 Channel IF 70 MHz, PCI Express board



Quantity of channels	1 (Acquisition and restitution)
Minimum flow per channel	DC
Maximum flow per channel	20 MHz bandwidth in record and replay, around of a central frequency of 70 MHz (IF)
Acquisition mode	By external or internal clock.
Accuracy of sampling clock	$(F_s \times 2^{32}) / 50 \text{ MHz}$
Stability	50 ppm.
Types of signals recorded with or without a clock.	IF 70 MHz
Input levels possibilities	-30 dBm to 0 dBm by steps of 1 dBm. 50 Ω Impedance.
Output levels possibilities	0 dB m 50 Ω
Irig and phone	Irig B, 600 mV at 6 Volts 1000 Hz modulation 1/3, 3/3
	Headphones and microphone supply Bandwidth 20 Hz – 4 KHz S/N ration 72 dB Impedance headphones around 200 Ω on jack.



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General characteristics	
Supply Voltage	28 V DC MIL STD 704 E or 90 V to 240V AC by sector box Approx. 180 VA (50 or 60 Hz) by external box (supply)
Operating Temperature	0° C to 55° C (Mil STD 810 E)
Storage Temperature	-20°C to + 70°C
Operating Humidity	30 to 80 % without condensation (Mil STD 810 E)
Humidity in storage	5 to 90 % without condensation
Operating max. altitude	3000 m (8 000 ft)
Altitude max. in storage	9 000m (30 000 ft)
Position of use	Horizontal (± 45°)
CE normalization	The equipment answers to the norm CE and, it is auto-certified CEM (MIL STD 461 E)
Bit Error Rate	Better than 10 ⁻¹⁴
Tape archive duration	<u>30 years</u> to 20 °c and 40 % humidity Without condensation
MTBF	20 000 hours
MTTR	30 minutes
Dimensions D.T MUX	450 mm 19 " 430 mm depth (without handle) 180 mm height (4U)
Weight D.T MUX	About 9 Kg



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