

PCM Acquisition and restitution recorder 4 channels 20Mbits/ch . -Irig B and voice

This device is our PCM D.TMUX recorder, new generation, with disc and tape in "raid 0" mode

This D.T MUX does the recording of 6 channels in same time (4 PCM channels, 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 4 channels at 20 Mbits each.

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

The central unit includes a dual core processor 2 giga Hz with 1giga 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 (or more) 4 PCM channels board, (max. 20 M sample / second by channel)

1 removable pack disc of 3,5" (300 GB)

The phone (with micro and headphones) and Irig B or GPS time input, are include in the recorder.

External archive on AIT3 tape (option)

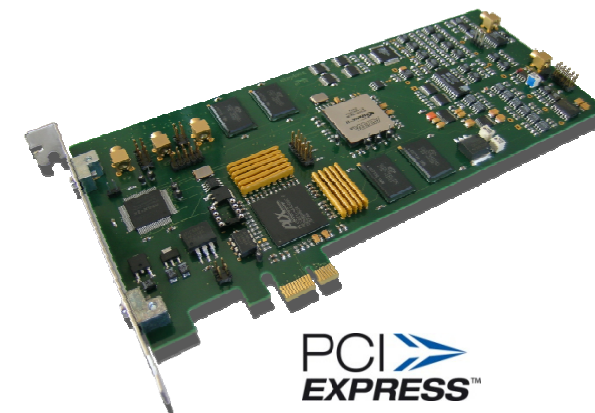
- Power supply 100V to 240 Volts 50 Hz or 60 Hz



I - ETEP515A : 4 Channels PCM, PCI Express board

REF : ETEP515A

4 channels PCM, PCI express board		DT-MUX [®] Recorders
Quantity of channels	1 to 4 (Acquisition and restitution)	
Minimum flow per channel	> 1Hz Until 3 KHz, use the internal sample rate.	
Maximum flow per channel	20 M bits /s /channel in record and replay	
Acquisition mode	External (clock and data) or internal (data only), Independent for each channel.	
Accuracy of sampling clock	$(F_s \times 2^{32}) / 50 \text{ MHz}$	
Stability	50 ppm.	
Types of signals recorded with or without a clock.	NRZ L, NRZ M, NRZ S, bi-phase L, bi-phase H, bi-phase S, Dif. Bi-phase H et S ...	
Input levels possibilities	TTL, RS 422, Analogical symmetrical of + or – 1 volt at + or – 5 volts.	
Output levels possibilities	TTL : 0 - 5 Volts, 20 mA RS 422 : 0 – 5 Volts with 180 Ω between + and - Analogical symmetrical of + or – 1 volt at + or – 5 volts (minimum 20 mA with 50 Ω included in series).	
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.	



PCI EXPRESS™



PCM Presentation recorder	Date 27/02/07	D.T MUX PCM RECORDER etep ©	Version: A	Redactors: JPC/ EPC		Page 2
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II - GENERAL CHARACTERISTICS SUMMARY

AC Voltage	90 V to 240V AC by sector box Approx. 180 VA (fuse 4 A delayed)
Operating Temperature	5° C à 55° C
Storage Temperature	-20°C à + 70°C
Operating Humidity	30 to 80 % without condensation
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
Bit Error Rate	Better than 10 ⁻¹⁴
Tape archive duration (external A IT 3)	30 years to 20 °c and 40 % humidity Without condensation
MTBF	20 000 hours
MTTR	30 minutes
Dimensions D.T MUX	450 mm 19 " 267 mm depth (without handle) 180 mm height (4U)
Weight D.T MUX	About 10 Kg



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