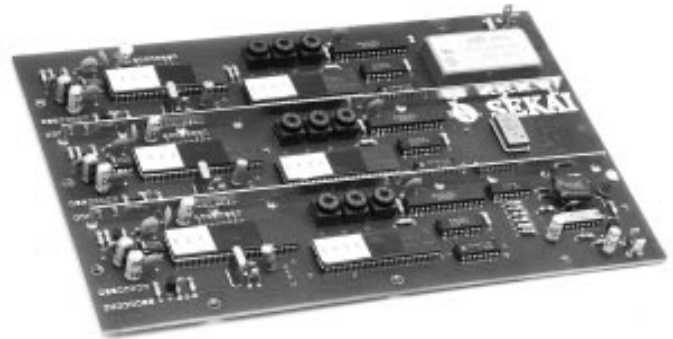


- **Converts IRIG-B into Commercial Standard Vertical interval Time Code (Broadcast Industry Standard - SMPTE)**
- **Inserts Time information on each frame without obscuring the picture area**
- **Allows user to set 3 ID Bits**
Example: Tail# and Recorder #
- **Available in rugged cases**
- **1 and 2 Channel versions available**

General Description

The REI-8310 is an IRIG-B to VITC time code converter. The unit will accept the IRIG signal at play/record speed and insert VITC code on three independent video channels. The REI-8310 is supplied as a bare PC board which accepts a power source of +28 VDC and is designed for high G-force environments. Three separate video loops are provided (Augat 101-HG connectors). A separate three digit ID number for each channel may be set via thumb-wheel switches. This number is encoded in the VITC user bits, as are the Julian Date data. Power and time code inputs are accessible on solder/push on terminals.

Once the VITC time information is on the tape the customer can then search quickly to points of interest and use **SYNC ROLL™** to synchronize playback of up to six different tapes. Since VITC is a broadcast industry standard, one can use broadcast editing equipment and utilize the IRIG time information to ease and speed editing. Ask for the Time Synchronized Video Systems paper for more details.



Capability:	Airborne triple IRIG B to SMPTE/EBU Vertical Interval Time Code converter. Each video channel has programability for a three digit identification number.
Software:	Proprietary code, on board EPROM
Time Code Input:	IRIG B (Inquire for others)
Time Code Output:	SMPTE VITC or EBU VITC (Optional) which includes encoded Days/ID, 0.3 Vpp - 10 Vpp (max. level)
Power Requirement:	28 VDC unregulated, 10 Watts Max.
Dimensions:	6" x 9.7" (1.5" Maximum Component Height)
Operational Position:	All Directions
Installation:	Vertical or Horizontal, 4 ways
Weight:	Approximately 1 lb.
Connectors	
Power:	Solder Post
Time Code Input:	Solder Post
Video Loop:	Custom Dip 101-HG5
Printed Circuit Board:	Thickness: .090" Stiffeners: .040" thick, .250" High, 1.00" Spacing
Accuracy:	± 200 ms
Functional	
Local Controls:	Three sets of PCB mounted thumbwheel switches for identification numbers.
Video	
Video Signal Standard:	EIA RS-170A, NTSC, S-Video (or PAL/CCIR Optional)
Signal-to-Noise Ratio:	Better than 43dB
Inputs (3):	1 Vpp 75 Ohm
Outputs (3):	1 Vpp 75 Ohm
Environmental	
Storage Temperature:	-40°C to +60°C
Operating Temperature:	-5°C to +55°C
Storage Humidity:	80% (34°C) to 20% (71°C)
Operating Humidity:	0 to 80% (Non-Condensing)
Shock:	40 G's, Crash Safety

Specifications subject to change without notice.

SE-041-9/99

