

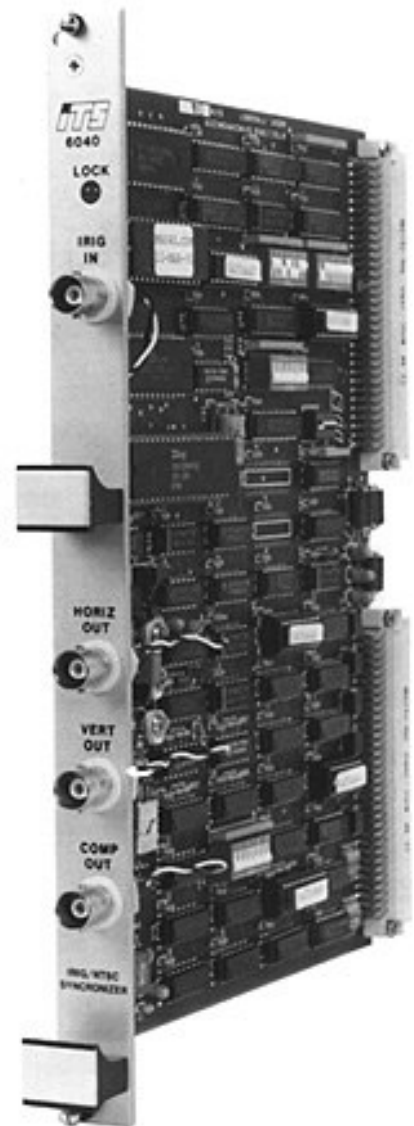
FEATURES

- * Generates true NTSC video frame, synchronized to an input IRIG B serial time signal.
- * Provides both composite and individual horizontal and vertical sync outputs.
- * Allows IRIG time to be read via the bus.
- * Provides propagation delay correction.

DESCRIPTION

The ITS Model 6040 generates an NTSC (RS-170A) video sync frame which is synchronized with an applied IRIG B time code signal. The unit allows cameras in different locations, where IRIG is present, to be locked together without the need for a common sync generator and intercabling. All cameras driven by 6040's via a common IRIG B signal will be precisely synchronized.

The 6040 plugs into a single 6U VME slot and requires only the standard VME power and an IRIG B time signal to generate the NTSC sync frame. Composite sync as well as individual horizontal and vertical sync outputs are provided. The IRIG time as well as lock status may be read from the 6040 via the VME, if desired, through either polled I/O or vectored interrupt modes. The time, once read, may be used by the VME processor to synchronize other devices or processes, or may be annotated onto the video picture itself as either ASCII text or machine readable code by using an ITS VMEbus Video Insertion Generator. Models 6020, 9938, 9891A and 9891B are compatible and can provide those functions.



Model 6040 VMEbus IRIG/NTSC Synchronizer

SPECIFICATIONS

IRIG In	IRIG B standard serial time code (IRIG Standard 200-98).
Composite Sync (Out)	Composite sync, IAW RS-170A, 0 to 5V peak-to-peak,
Horizontal Sync (Out)	0 to 5V peak-to-peak, 4.7 usec wide, 15734 Hz, negative true.
Vertical Sync (Out)	0 to 5V peak-to-peak, 190.67 usec wide, 59.94 Hz, negative true.
VMEbus Compatibility	A16:D16 Slave, Bus Address switch-selectable within 64K short I/O address space; occupies 1 word address space with supervisory/nonprivileged address switch selection Interrupter is switch-selectable, I (1) to I (7) or off; switch-selectable vector
Interrupts	Vectored interrupts generated at program controlled rates of either 1 Hz, 10 Hz, 100 Hz, 1000 Hz or 59.94 Hz vertical sync. Interrupts may also be disabled under program control.
Power Requirements	5 volts @ 350 ma nominal +12 volts @ 4 ma nominal -12 volts @ 4 ma nominal
Temperature Operating Nonoperating	0° to 55°C (32° to 131°F) -20° to 70°C (-4° to 158°F)
Humidity	95% non-condensing
Size	Dual-high VME card (6U form factor) occupies one slot (0.8 inch spacing)