

IRIG B Generator

Model No: JC-SMTP-IRG11



Land



Air



Marine

IRIG is a serial standard for time code generation, distribution and reading. It is essentially used for distribution of absolute time information. The reference input can be from a GPS receiver, another IRIG-B Generator, time on serial interfaces like RS232/422/485 or locally entered. Depending on the resolutions required, IRIG-A,B,D,E and G options can be chosen. Also depending on distance for distribution, a DC code or an Amplitude Modulated AC code can be chosen.

Applications

- Range systems
- Power plants
- Satellite launch control systems

Features

- Synchronization to an accuracy of a few tens of microseconds
- Can be modified to transmit control status info in addition to time
- Can be used as a DC or AC code generator based on receiving systems



Technical Specifications

Functional	
Inputs	
GPS	NMEA info over serial interface and 1PPS signal
IRIG-B	Level: 0.5V to 8V p-p, 1KHz modulated, Modulation ratio: 5:1 to 3:1
Outputs	
IRIG-B	Dual 1KHz modulated signal at 4V p-p, modulation ratio 3:1
Ref. out	10MHz Reference Out
User interface	2 * 20 LCD display 3 * 6 membrane keypad 9 digit time display in DDD:HH:MM:SS format
Communication Interface	RS-232 and 10/100 Base-T Ethernet for configuration & status monitoring
Electrical	
Operating Voltage Range	230V±15V AC, 1 Phase, 50 Hz or 24± 4V DC
Rated Current	0.2 Amp Max in AC supply or 1A in DC supply
Mechanical	
Dimensions	1U 19 inch Rack Mountable W: 482 mm X H 44 mm X D 350 mm
Weight in Kg	<4kgs
Environmental	
Temperature	
Operating	-20° C to +55° C
Storage	-25° C to +65° C
Humidity	90% RH Non-Condensing
Environmental Compliance	JSS-55555 / MIL 810D
EMI/EMC Compliance	MIL-STD-461E

