MISSILE INTERFACE UNIT

FEATURES

- Compact Design
- Rugged Packaging
- Single 28V DC Operation
- High Reliability

SPECIFICATIONS

- EN87C196KC @ 20MHz
- 32KB BOOT EEPROM
- 22Kbytes Static RAM
- 8Kbytes 1553B
- 1-dual redundant 1553B Channel
- 1-channel (RS-422)
- Analog I/P 16-channels (8-Single ended, 8-Differential)
- Analog O/P 8-channels
- Digital O/P 48 Nos. Opto-Isolated with relay drive capability 28V, 300mA(max)
- Digital Input 40 Nos. Opto-Isolated
- ADC Resolution : 12 Bit
- DAC Resolution : 12 Bit
- Operating Temperature : -40 to +85ºC
- Environmental Tests : As per MIL Standard

DESCRIPTION

Missile Interface Unit (MIU) is an Intels EN87C196KC microcontroller based ruggedised data acquisition system. The sytem acquires digital/analog data and the system has serial communication capabilities on both RS-422 and 1553B standards.

This section combines 3 modules (CPU, Input/Output and Power Supply) on a single card. CPU card consists of EN87C196KC Micro Controller operating at 19.6608 MHz, 32Kbytes of external EEPROM, 22Kbytes of Static RAM, one RS 422 serial I/O channel and one MIL-STD 1553B are interfaced with the Controller. 40 Digital inputs and 48 Digital output channels are interfaced with microcontroller.

Input/Output module consists of 8 channel single ended Analog to Digital converter system, 8 channel diferential ended Analog to Digital converter system and 8 channel Digital to Analog Converter system.

Power supply module consists of one DC-DC Converters.