DSP CONTROLLER

SPECIFICATIONS

- Processor ADSP 21060
- 4 MB Flash or EEPROM
- Serial EEPROM – 4 Kbit
- SIO- 4 Nos with 64 word deep FIFO.
- RS 232- 3 Nos
- RS 422 – 1 No Full duplex.
- Eight 16 Bit, ±10V Analog O/P Channels.
- Eight 16 Bit, ± 10V Analog I/p Channels
- MIL-STD-1553B Interface
- Compatible control & Status signals for external system (28V level signals).
- Four input and four output ports of 28v level signal.
- Reset Options
- Power-ON/Low Voltage Reset.
- Manual Reset
- Watch Dog Expiry (Maskable)
- Software Reset through digital O/P port
- Watch Dog Timer
- Four On-Board DIP switches for software option selection
- On Board LEDs for testability and status indication.
- LED for CARD FAULT, RUN, WDOUT and system in permanent reset.
- Software controlled LED
- Wait state and ready options
- External wait state generator for peripherals without a READY pin.
- ACK hand - shake for all external bus accesses.
- A link port extended on header for expansion
- Power supply : 5V@2A, ±15V@100mA
- 8 bit filtered/Schmidt trigger binary input 8 bit buffered, Latched TTL output.

DESCRIPTION

DSP Controller board is a general purpose board with 1553B interface and multiple analog inputs and outputs of 16 bit resolution. The system is designed to meet MIL-STD810F. The unit can be used for applications involving intensive DSP implementation and mathematical computation for RADAR, Seekers, Gyro Actuation Systems and similar applications.

APPLICATIONS

- Aerospace & Defence
- RADAR/SONAR/LIDAR
- Surveilance
- Medical Imaging
- Scientific Studies
- DNA Analysis
- Foreinsic Systems
- Seeker Systems
- Gyro Actuation Systems