



Table 1 - cPCI BASED THERMOCOUPLE CARD



SPARTAN 6 FPGA based cPCI Interface based Industrial grade 6U, 4HP, 66MHz, 8 Channel K type Thermocouple Card.

- **Channel to Channel isolation for all the 8 channels of differential K type thermocouple input signals. All the 8 channels three port isolated.**
- **All the isolated analog input channels are multiplexed to low power 200KSPS ADC – AD976 using multiplexer - ADG408BRZ.**
- **All the analog input channels transient and over voltage protected.**
- **Online diagnostics using voltage reference outputs.**
- **Standard cPCI Hot-Swap Controller based Design.**
- **Standard 66MHz cPCI Interface between FPGA and cPCI connector.**
- **65 ohm and 50 ohm impedance controlled board design**
- **Complicated power supply planning.**
- **SI, PI, Thermal Analysis done.**

THIS HAS BEEN DEVELOPED FOR IGCAR, KALPAKKAM FOR PROCESS INSTRUMENTATION APPLICATION