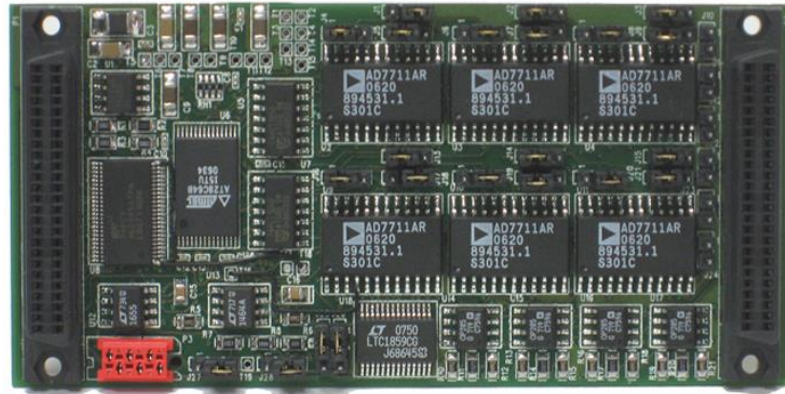


## Summary

## 6 TEMPERATURE CHANNELS - 8 HIGH VOLTAGE CHANNELS INDUSTRY PACK MODULE

The **IP-THERMISTOR** is designed around the delta sigma A/D converter AD7711 from Analog Devices. It is a 24/16 bit precision temperature measurement single width IP module, with fixed and optional programmable current source. Each of the 6 temperature measurement channel has its own A/D converter with two matched 200 $\mu$ A current sources.

The Board also features 8 single-ended high impedance analog inputs. Also a 16 bit A/D converter with 8 channels multiplexed allows measurement of input voltage in excess of +/- 20volts.



*IP-THERMISTOR*

### Features:

- 6 Temperature Measurement Channels
- 16 or 24 Bits precision programmable
- Eight x 16 Bits A/D channels
- Input Voltage up to +/- 20V
- Each Analog input is programmable separately  $\pm 10V$ ,  $\pm 5V$ , 0-5V, 0-10 V
- Input with software programmable Gain from 1-128
- Sampling clock of 100KSPS

### Programmable via:

- IP Bus

### IP interface:

- 8/32 MHz clock
- 16 bit data
- Interrupts

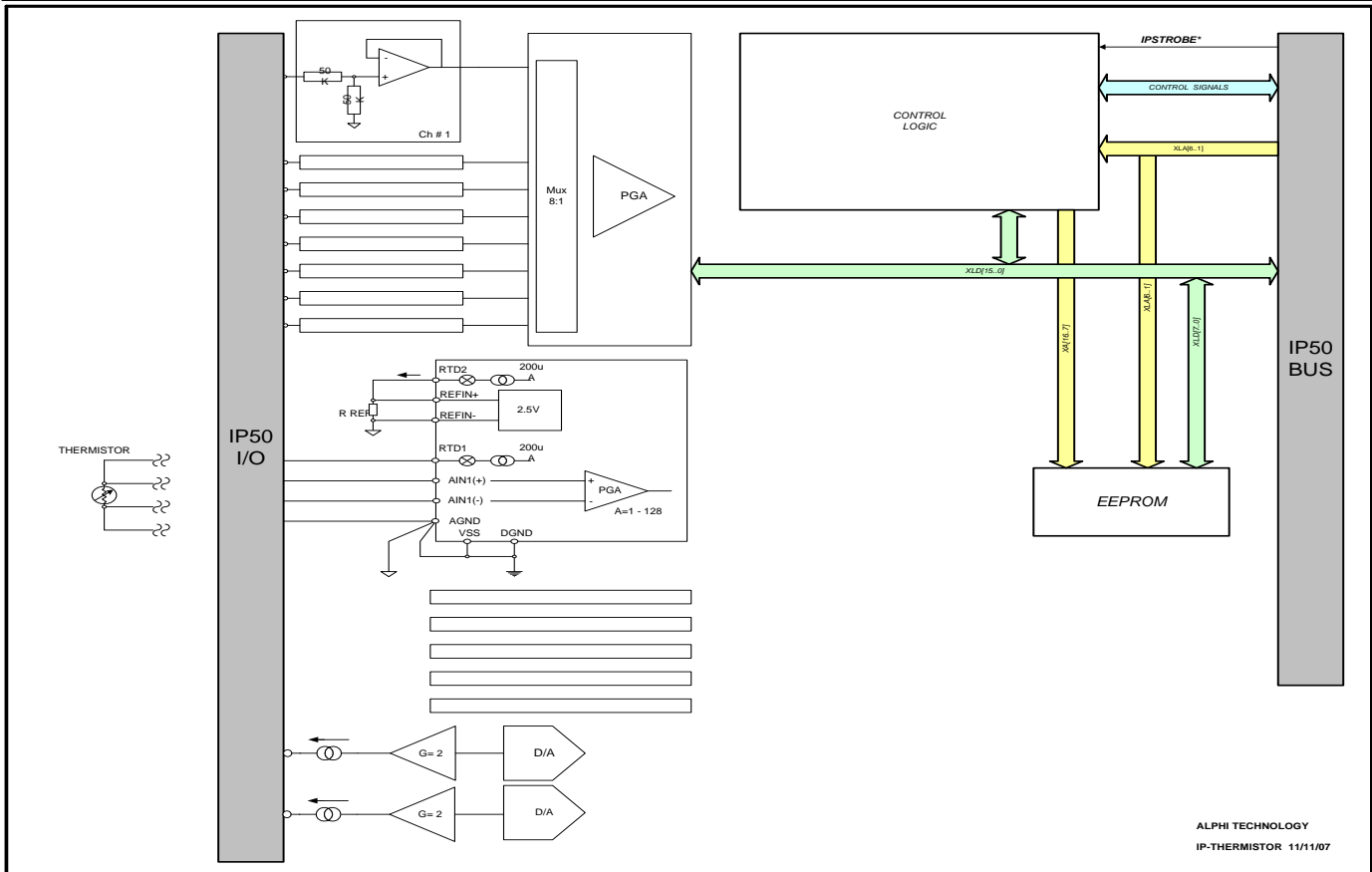
### Operating: Environmental:

- Operating temperature  
Commercial: 0 to +55 °C  
Optional: -25°C to +80°C
- Non-operating: -40°C to 85 °C
- Airflow requirement: .5 CFM
- Humidity: 5 to 90% (non-cond.)
- Altitude: 0 to 10'000 ft

### Mechanical: Environmental:

- Size: Vita 4 Type 1 IP  
1.8" x 3.9"
- Power: up to 3.5 watt
- Vibration: 0.5G RMS  
20-2000 Hz rand
- Shock: 20 G, 11 ms, 1/2 sine
- Weight: tbd
- MTBF: >250000 hours





Functional Block Diagram

### ORDERING INFORMATION

Part Number: IP-THERMISTOR 6-Temperature Channels – 8 Voltage Inputs

### Optional Accessories

Part Number : TB-50-HDR 50 pin terminal block and 1meter flat ribbon cable  
 CBL-50-HDR 50 pin,1meter flat ribbon cable, IDC header connector

### Alphi Technology Corporation

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