

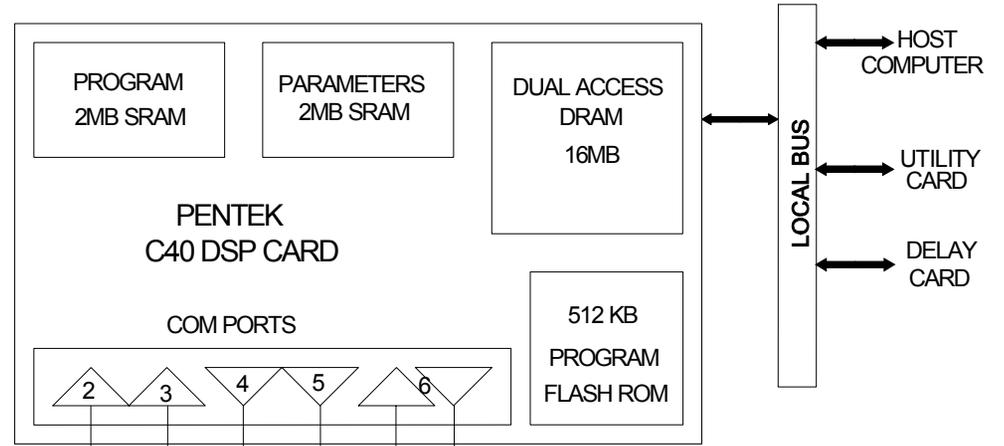
RHIC QUENCH DETECTION BLOCK DIAGRAM #3

INTERFACE TIMING & CONTROL CARD

- CONTROLS AND PROVIDES TIMING SIGNAL TO S/H, MUX AND ADC CIRCUITS.
- COMMUNICATES TO DSP CARD
- SENDS DIGITIZED DATA TO DSP CARD
- SENDS ABORT SIGNAL TO CONTROL SYSTEM
- SENDS QUENCH AND HEARTBEAT FAILURE SIGNALS TO POWER SUPPLY CONTROL SYSTEM

DSP CARD FUNCTIONS:

- COMMUNICATES TO TIMING CARD
- READS MAGNET CURRENTS
- READS MAGNET VOLTAGES
- PERFORMS CALCULATIONS
- UPONS QUENCH, SENDS COMMAND TO TIMING CARD
- MONITORS FRONT-END HARDWARE STATUS



TIMING AND CONTROL CARD

