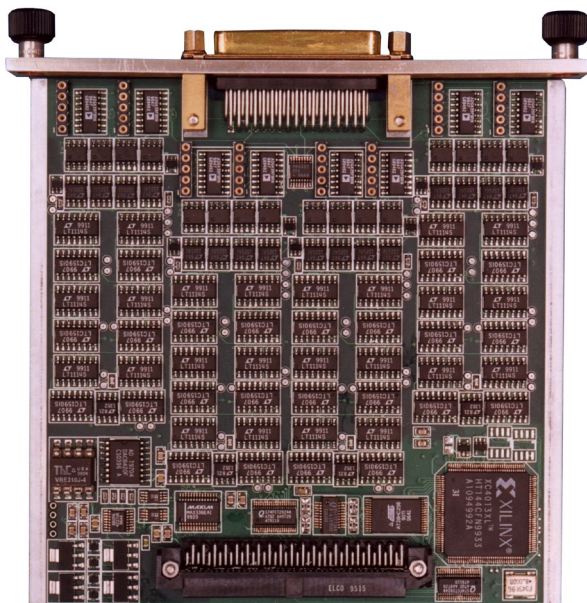


Technical Bulletin

PSCC-108-1 8-Channel Programmable Signal Conditioner Airborne Data Acquisition Products



- Programmable Gain
 - 1000 programmable gains from 1 to 1000 (per channel)
- Programmable Offset Trim
 - +/- 50% Per-Channel
 - 1 LSB Resolution
- Digitally Programmable Analog Filter
 - 6th Order Butterworth Filter
 - Filter Cutoff from 15 Hz to 5 KHz
 - 1.25 Hz Increments
- Simultaneous Sample (Optional)
- Current Excitation (Optional)
- Programmable Bridge Balance
 - 12 Bit Resolution
 - Adjustable to +/- 50%
- Bridge Excitation
 - Digitally Programmable
 - 1V to 10V
 - 0.25V Increments
- Input Over Voltage Protection
 - - 40 Volts to +55 Volts, Power On/Off
- High Input Impedance
 - > 10 Megohms Power On
 - > 1 Megohms Power Off
- Bridge Completion Provisions
 - Full, Half or Single Element Bridges
- 8 Additional Output Channels
 - Four Excitation Sources
 - +12V Excitation Supply
 - +5V Supply
 - Card Temperature Output
 - Signal Ground
- Calibration Provisions
 - Zero Calibration
 - Shunt Calibration
 - Voltage Substitution
- Compatible with PCU Series I, II, III, IV
- Pin to Pin Compatible with SCC-108



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PSCC-108-1 BLOCK DIAGRAM

