Analog Input Module (ADS8688 - 16 Bit SAR)

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50 Pin Connector to EVM Board, Hot Swap controller, EEPROM

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Isolated SPI & I2C, Isolated Fly buck Power Supply for +18V_ISO, -18V_ISO, +6V_ISO and 3.3V_NON_ISO

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LDO to generate +5V_ISO and VCC & ADC

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Revision History

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Analog Input Module (ADS8688 - 16 Bit SAR) Project Title:

Designed for:

Public Release

Assembly Variant:

Variant name not interpreted

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4 Single Ended Voltage Inputs:
+/- 10VDC
0....10VDC
0.....5VDC
1....5VDC

4 Current Inputs:
0....20mA
4....20mA

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Contact:

http://www.ti.com/support

http://www.ti.com

Printed on recycled paper containing 10% post-consumer recycled fiber.
LDO power supply section

ADC

ADS8688BDT

Contact:
Assembly Variant:
Designed for:
Mod. Date:
Pg5 LDO and ADC.SchDoc

SVN Rev:
5

Contact:
Assembly Variant:
Designed for:
Mod. Date:
Pg5 LDO and ADC.SchDoc

SVN Rev:
5

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Analog Input 1

1. **Components**
   - Resistors (R1, R2, R3, etc.)
   - Capacitors (C1, C2, C3, etc.)
   - Diodes (D1, D2, etc.)
   - Operational Amplifiers (U1, U2, etc.)

2. **Connections**
   - Input signals (AIN0, AIN1, AIN2) to amplifiers.
   - Feedback loop connections for stability.
   - Power supply connections (+5V_ISO, -18V_ISO).

3. **Markings**
   - Component values and designations.
   - Labels for signal paths.

4. **Design Notes**
   - **Engineer:**
   - **Drawn By:**
   - **Contact:**
   - **File:**
   - **Sheet:**
   - **Size:**

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6. **Links**
   - [Texas Instruments Support](http://www.ti.com/support)
Analog Input Module (ADS8688 - 16 Bit SAR)

- Fiducials
- Mounting holes

PCB Number: TIDA-00164
PCB Rev: E1

PCB LOGO
Texas Instruments

Log 1

PCB Label

PCB Label: http://www.ti.com/support

1. Null Assembly Note
   This assembly Note is for PCB labels only.

2. Null Assembly Note
   These assemblies are ESD sensitive, ESD precautions shall be observed.

3. Null Assembly Note
   These assemblies must be clean and free from flux and all contaminants. Use of no-clean flux is not acceptable.

4. Null Assembly Note
   These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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