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Find the *ICE Technology / Nohau PIC6* at our website: ***Click HERE***

ICE-A2D-r8

Analog to Digital Converter Module

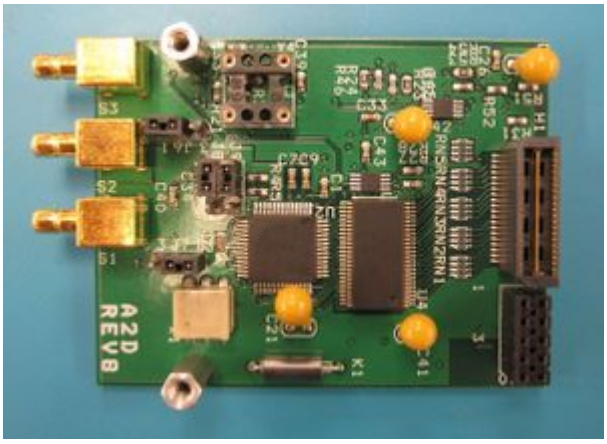
Contents

Features

Jumper Settings

- DC- or AC-Coupled
- Digital 3.3V Power Source
- Analog 5V Power Source
- External Clock Selection

Status



A2D-r8 Top

Features

- Utilizes TI ADS5424
- 14-bit 105 MSamp/sec A/D converter 1Vp-p analog input range
- Jumper-selectable AC- or DC-coupled analog input
- External clock derived via a comparator, AC-coupled 1Vp-p
- Oscillator socket (for user supplied clock, jumper selectable with external comparator clock)
- External connector for 1-PPS LVTTL input-stored in bit 0 of 16 bit word (14-bit data MSB-aligned)
- Over/underflow output on data bit 1 of 16-bit word (14-bit data MSB-aligned)

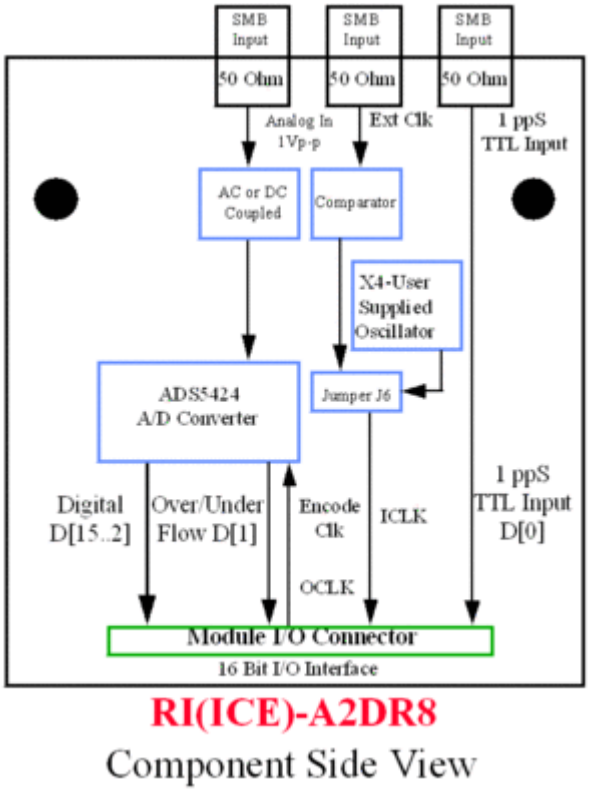
Note: For Use Only With ICE-PIC5XL or ICE-PIC6



A2D-r8 Bottom

Jumper Settings

DC- or AC-Coupled



A2D-r8 Functional Diagram

Jumper	DC-Coupled[1]	AC-Coupled[2]
J7	1 & 2 SHORT	2 & 3 SHORT
J8	1 & 2 SHORT	2 & 3 SHORT
J9	1 & 2 SHORT	2 & 3 SHORT

Notes:

1. For sampling rates Of 2 MSPS and below, DC-coupling should be used.
2. AC-coupled is the default setting when delivered.

Digital 3.3V Power Source

Jumper	Voltage Regulator[1]	Board Header[2]
J3	1 & 2 SHORT	OPEN
J4	1 & 2 SHORT	2 & 3 SHORT

Notes:

1. 3.3V digital power via voltage regulator (default power setting when delivered)
2. 3.3V digital power via board header (not an available source for the ICE-PIC3T or ICE-MBT3)

Analog 5V Power Source

Jumper	Board Header[1]	External[2]
J2	2 & 3 SHORT	1 & 2 SHORT

Notes:

1. 5V analog power via board header (default power setting when delivered)

   5V power is shared between digital logic and analog logic.

2. 5V analog power via external power source:

   For normal operation, you will not need external power connections. Users who wish to supply the analog circuitry a "quieter" external power source, separate from the digital power connection as provided above, can connect to one or both pins of J2 a separate 5V supply.

Addendum:

- For connecting to J2, Digi-Key supplies a terminal housing (Part Number: WM2601-ND).
- You will also need 2 terminals for the housing (Part Number: WM2200-ND).
- Wires: 22-30 AWG.

External Clock Selection

Jumper	SMB Comparator[1]	User Supplied Oscillator[2]
J6	1 & 2 SHORT	2 & 3 SHORT

Notes:

1. Default selection when delivered.
2. User supplied oscillator—Oscillator (X4) should be 5V with CMOS output.

Status

EOL has been declared for this model: see End-of-Life for details. Please call for pricing and availability.

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