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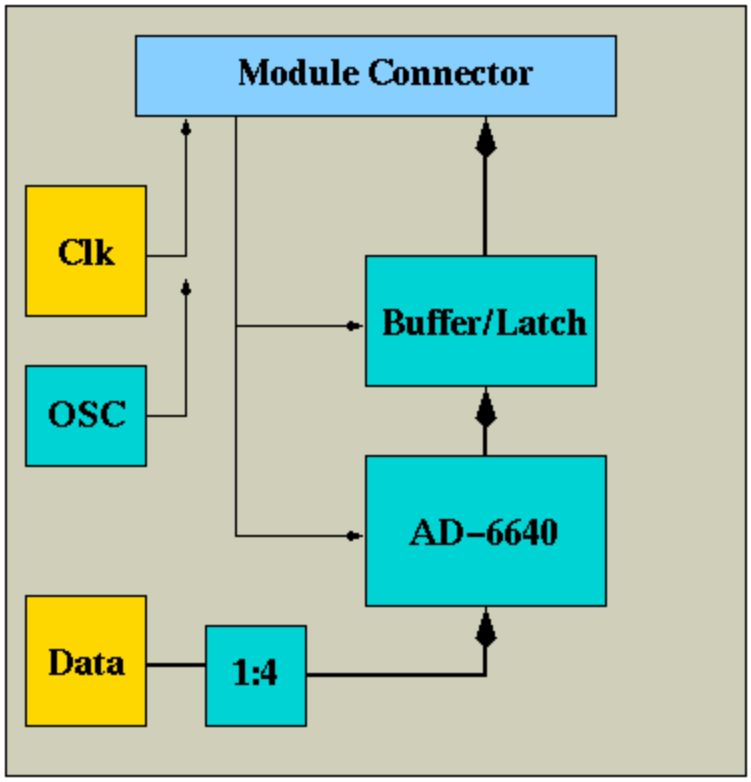
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Find the *ICE Technology / Nohau A2D* at our website: *Click HERE*

ICE-A2D

Analog to Digital Converter Module

BLOCK DIAGRAM



DESCRIPTION

The ICE-A2D module is a single channel Analog to Digital Converter for use on an ICE card with a 16-bit digital I/O site. The input is transformer coupled to an AD-6640 65MHz 12bit converter from Analog Devices.

The data is 1Vpp into 50 Ohms through a 4:1 RF transformer. Power dissipaton @ 65MSPS = 695mW. Typical SNR = 68 dB.
NOTE: The AD6620 has a minimum clock rate of 5MHz.

Signal lines are attached to the module by two coaxial cables, clock and data. An internal clock is also available via software control. It is the on-board crystal 40MHz divided by an integer from 1 to 65535.

The power plane for the analog circuits is isolated from the digital circuitry to reduce switching noise. The analog power supply jumpers are located such that they may be easily jumpered to the digital supply if desired (default configuration).

SERIES 2 CARDS:

The clock is jumpered to be DC coupled TTL levels, an AC coupled 1Vpp sine wave,
or a crystal installed on the module (optional).

The clock also has a jumper that applies a 50 ohm termination to ground.

An internal clock from the mother board is also available via software control. It is the on-board crystal 40MHz divided by an integer from 1 to 65535.

Jumper Settings:

H3 - Closed for 50 ohm termination
H4 - Closed for DC coupled clock input (0-5V)

H5 - Closed for AC coupled clock input (1Vpp)
H6 - Closed for on-board oscillator clock input

SERIES 3 CARDS:

The clock is an AC coupled 1Vpp sine wave with 50ohm termination jumper.
There is no on-board oscillator - this is on the mother board.
The data is 1Vpp into 50 Ohms through a 1:4 RF transformer.

An internal clock from the mother board is also available via software control. It is the on-board crystal 40MHz divided by an integer from 1 to 65535, or the socketed user specified crystal on the motherboard.

Jumper Settings:

J1 - Closed to ground data connector sleeve
J2 - Closed to ground clock connector sleeve
J3 - Closed for 50 ohm termination of clock

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