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WaveVision 5 Data Capture Board Version 5.1

{ACTIVE} WAVEVSN-BRD-5.1

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Description

WaveVision is Texas Instruments' evaluation system designed specifically for lab evaluation of analog-to-digital and digital-to-analog signal-paths. It consists of two main components: the data capture hardware (the board) and the graphical user interface and control software. Both the board and the software have evolved through a few major generations. WaveVision5 Data Capture Board is the latest generation of said boards and is designed to offer the customer the ability work with the highest speed signal path ICs from National Semiconductor. It is not intended to replace the WaveVision4 capture board as the WaveVision4's performance is quite sufficient in many cases.

The WaveVision5 capture board will work with the current generation WaveVision4 software as well as the next generation of software currently in development. In this Users' Guide the operation with WaveVision4 software is described.

A third element that constitutes a complete evaluation setup is the device or signal-path evaluation board that plugs into the WaveVision5 capture board. This board is generically refered to as the "DUT board". Each ADC or signal-path evaluation board comes with its own User's Guide, which documents its specific features.

This User's Guide primarily describes the base version of the WaveVision5 Data Capture Board and its use. However, reference is made to the extended (EXT) version where it differs from the base version. The EXT version differs from the base version only in that it offers 8MBytes of additional buffer for imaging applications. Generically, the system is referred to as "WaveVision5", regardless of the version. Accordingly, wherever "WaveVision5" is mentioned, it means both base and EXT, unless otherwise stated or implied.

Features

- Transfers data rapidly at high-speed with USB 2.0 (USB1.1 compatible).
- Provides jumperless, plug-and-play configuration.
- Supports a wide variety of ADC Evaluation Boards through two separate connectors: one of which allows connection with many WaveVision4 board compatible evaluation boards.
- Fast data capture:
  Through the FB (FutureBus) coonector (compatible with the WaveVision4 board):
    - 36 parallel CMOS signals at up to 200 Mbps/signal (in DDR mode); or
    - 28 parallel LVDS pairs at up to 600 Mbps/signal (in DDR mode)
  Through the new HMZd connector:
    - 12 differential serial pairs at up to 900 Mbps/signal (in DDR mode)
- High-speed auxiliary data connector allows alternate connection with logic analyzers.
- Base version capable of storing 64k, 16-bit wide samples from 1 or 2 DUT board channels.
- Extended version capable of storing up to 8MBytes of data for imaging type applications.
- DUT control through SPI interface.

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Part Number	Buy from Texas Instruments or Third Party	Status	Lead-Free	RoHS
WAVEVSN BRD 5.1/NOPB: WaveVision 5 Data Capture Board Version 5.1	$1249.00(USD) **Buy from TI**	ACTIVE	Yes	Yes

Technical Documents

Design Files (1)

Title	Abstract	Type	Size (KB)	Date	Views
WAVEVSN-BRD-5.1 Design Package		ZIP	5656	13 Sep 2012	100

Related Products

Software (1)

Name	Part Number	Software Type
Data Acquisition and Analysis Software	WAVEVISION5	Application Software & Frameworks

Design Kits & Evaluation Modules (13)

Name	Part Number ⇕	Tool Type ⇕
12-Bit, Dual 1.6 GSPS or Single 3.2 GSPS A/D Converter Reference Board	ADC12D1600RFRB	Evaluation Modules & Boards
12-Bit, Dual 1.6/1.8 GSPS or Single 3.2/3.6 GSPS A/D Converter Reference Board	ADC12D1600RB	Evaluation Modules & Boards
12-Bit, Dual 1.8 GSPS or Single 3.6 GSPS A/D Converter Reference Board	ADC12D1800RFRB	Evaluation Modules & Boards

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