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### WaveVision 5 Data Capture Board Version 5.1 (ACTIVE) WAVEVSN-BRD-5.1



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### 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

Description

**Products** 

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

data capture hardware (the board) and the graphical user interface and control software.

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

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** 

#### 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:

• Transfers data rapidly at high-speed with USB 2.0 (USB1.1 compatible).

User's Guide, which documents its specific features.

Through the new HMZd connector:

- 12 differential serial pairs at up to 900 Mbps/signal (in DDR mode)

- 28 parallel LVDS pairs at up to 600 Mbps/signal (in DDR mode)

- 36 parallel CMOS signals at up to 200 Mbps/signal (in DDR mode); or

Through the FB (FutureBus) coonector (compatible with the WaveVision4 board):

- · 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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WaveVision 5 Data Capture Board Version 5.1

### WAVEVSN BRD 5.1/NOPB:

Part Number

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\$1249.00(USD)

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Views

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Status

ACTIVE Yes

Lead-Free

Part Number

ADC12D1600RB

◆ Tool Type

ADC12D1600RFRB | Evaluation Modules & Boards

**Evaluation Modules & Boards** 

RoHS

Yes

### Title

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# WAVEVSN-BRD-5.1 Design Package

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

#### 12-Bit, Dual 1.6/1.8 GSPS or Single 3.2/3.6 GSPS A/D Converter Reference Board 12-Bit, Dual 1.8 GSPS or Single 3.6 GSPS A/D Converter Reference Board

Design Kits & Evaluation Modules (13)

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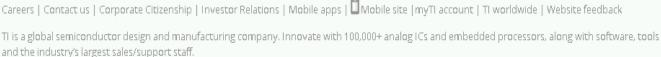
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