

3 YEARS IN A ROW DTS WINS GOLD!

PRODUCTS

DTS offers a full line of data acquisition recorders and sensors for dynamic, high shock testing.

SERVICES

24/7 Worldwide Tech Support
Calibration & Repair Services
Application Support
Software Integration
OEM/Embedded Applications

OFFICES

Seal Beach, California USA
Novi, Michigan USA
Sydney, Australia
Shanghai, China
Zorge, Germany
Tokyo, Japan



this issue

- SLICE MICRO vs. SLICE NANO **P.1**
- DTS Celebrates 20 Years **P.2**
- Max SLICE Sampling Rates **P.2**
- Grounding & Shielding **P.2**
- DTS Team Grows **P.2**

AWARD-WINNING SLICE DATA RECORDER

When DTS won its first Gold Award for SLICE in 2008, it was evident the technology was a winner. Today the list of SLICE applications continues to expand, along with the system features.

SLICE is a standalone data acquisition and sensing system with a microprocessor, memory, sensor excitation and signal conditioning. Options are available for built-in battery and internal sensors. The systems are user-configurable and flexible, allowing users to create data collection systems ranging from 3 channels to hundreds of channels (in 3 channel increments). Available versions: SLICE MICRO & SLICE NANO.

SLICE MICRO has built-in connectors and supports Bridge SLICE, ARS SLICE, Accel SLICE and IEPE SLICE sensor modules. Footprint is only 42 x 42 mm.

SLICE NANO has permanently attached cables terminated with connectors. SLICE NANO currently supports the Bridge SLICE modules and features a 31 x 26 mm footprint.

Each system starts with a Base SLICE that can accommodate up to 8 sensor input Bridge SLICES. Each Bridge SLICE contains 3 analog input channels that then stack or daisy-chain to create a system. Connecting to the Base SLICE is easy—one cable contains power, communication and control signals.

Another key feature is the fast, simple and easy-to-use software. SLICEWare provides tools for storing sensor information and performing data collection. Automatic sensor assignment, detailed channel diagnostics and real-time data display all support successful testing.



SLICE is a modular system that features 3-channel sensor input blocks that stack to create the exact feature set and channel configurations required.



SLICE has been used in a variety of applications including: aerospace, automotive, commercial aircraft survivability, blast, biomechanical injury analysis and sports safety equipment design. SLICE customers include: Raytheon Technical Services, NAV AIR China Lake, Specialized Bicycle Components and Toyota Motor Co. to name a few.



Advanced Measurement Solutions
www.dtsweb.com

TECH NOTE

Q: What is the maximum sampling rate for SLICE?

The max SLICE sampling rate is a function of the number of bridges per stack and the stack bus speed.

To determine the maximum sampling rate, divide 120,000 sps by the number of bridges in the stack.

MAX SAMPLING RATE:

- 1 Bridge/3 ch = 120,000 sps
- 2 Bridges/6 ch = 60,000 sps
- 3 Bridges/9 ch = 40,000 sps
- 4 Bridges/12 ch = 30,000 sps
- 5 Bridges/15 ch = 24,000 sps
- 6 Bridges/18 ch = 20,000 sps

DTS SPOTLIGHT



DTS welcomes Bret Eisman as Customer Relations Specialist. Bret works in the Seal Beach, CA office and brings 20 years experience to DTS. Bret's primary role is to work with customers on open projects, including all calibration & repair services.

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DTS Celebrates 20 Years



July 2010 marked DTS's 20th Anniversary as a successful business. The company's approach of combining core engineering expertise with ingenuity and flexibility has led

to a stream of successes and steady growth. To date, DTS has sold over 200,000 channels to clients in more than 30 countries and staffs 6 international technical support centers worldwide.

Built on a foundation of progressive solutions, DTS quickly assumed the leadership position in data acquisition system solutions for crash testing. Project awards including being a member of the design development team for the innovative WSID (World Side Impact Dummy) in 1999, as well as receiving the single highest channel DAS order for crash testing (GM USA), have validated DTS as a world-class player and market leader. The reputation for proven performance, innovative technology and flexible solutions continues to define DTS as a company.



Today DTS has a team of over 50 employees and offices around the world. The corporate headquarters is located in Seal Beach, California.

Multiple industry awards, hundreds of successful installations and a creative, technologically advanced product line enable DTS to fulfill testing needs in a variety of markets including sports science, human tolerance and structural analysis.

DTS's vision for the future remains focused on the foundation of its business principles: superior engineering coupled with integrity.

GROUNDING & SHIELDING

Does SLICE contain protection for EMI/RFI and ESD?



YES, but due to the harsh nature of many dynamic test sequences, DTS recommends following good grounding and shielding practices to maximize protection and keep systems functioning properly. Ground all DAS equipment, power supplies and sensor mounting fixtures whenever possible. Ground all SLICE enclosures to the test article.

Always connect a cable from a good earth ground to the test article or test fixture. Use shielded sensor cables and ground your PC whenever possible. Electromagnetic Interference (EMI), Radio Frequency Interference (RFI) and Electrostatic Discharge (ESD) can seriously degrade the performance of electronic equipment, even SLICE products. These simple steps are extremely important to ensure the best performance from your SLICE systems.



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