

Having trouble viewing this email? [Click here](#)



JAN-FEB 2013

TECH NOTES FROM DTS THE LEADER IN DYNAMIC
DATA ACQUISITION SYSTEMS & SMART SENSORS

DataPoint

Any Way You SLICE It . . . The SLICE family of data recorders expands

TWIWI

Do you have a unique application for which you are using DTS data recorders & sensors?

The test applications are practically endless, but we're looking for those standouts that make us say "TWIWI - That Was Interesting, Wasn't It?"

Send us a quick email about your application for a chance to be featured in an article and on the DTS website.

Do you have photos of your DTS blue boxes and sensors in action? That will definitely earn extra points toward being named the most interesting application in the world.

Please submit to:
shelly.horvath@dtsweb.com

PRODUCTS

Diversified Technical Systems designs and manufactures data acquisition systems & sensors for the experienced testing professional.
www.dtsweb.com



DTS continues to build on the proven success of the SLICE technology and has expanded the line with new products, features and accessories ideal for a variety of test set-ups and applications. All SLICE units are complete standalone systems featuring a microprocessor-based controller that simultaneously samples on each channel, along with a variety of signal conditioning options. The modular architecture of SLICE allows configurations from as few as 3 channels to 100s of channels.

• **SLICE NANO**

- Miniature 26 x 31 mm footprint, built-in cable assembly
- 3 channel sensor input blocks, stack for higher channel counts
- Supports variety of external sensors including: bridge, MEMS, strain, load, voltage, temperature, digital and frequency
- Sampling to 120 ksps/channel, bandwidth to 40 kHz, 7 GB memory

• **SLICE MICRO**

- Ultra-small 42 x 42 mm footprint, integrated connectors
- 3 channel sensor input blocks, stack for higher channel counts
- Supports variety of external sensors including: bridge, MEMS, strain, load, voltage, temperature, digital and frequency, PLUS IEPE
- Options for built-in triax accels and triax angular rate sensors
- Sampling to 120 ksps/channel, bandwidth to 40 kHz, 7 GB memory

• **SLICE PRO NEW!**

- Small 52 x 90 mm footprint, LEMO 1B or Tajmi connectors
- 9 or 18-channel sensor input blocks, link for higher channel counts
- Supports variety of external sensors including: bridge, MEMS, strain, load, voltage, temperature, digital and frequency, PLUS IEPE
- Sampling to 1 Msps/channel, bandwidth to 200 kHz, 16 GB memory

To see which SLICE product is the best fit for your application, contact sales@dtsweb.com

New Calibration & Service Pricing Increase Effective March 1



SERVICES

24/7 Tech Support
 ISO 17025 (A2LA)
 Calibration & Repair
 Application Support
 Software Integration
 OEM/Embedded
 Customized Training

Pricing for all DTS calibrations and repair services officially goes up 5% effective March 1. Customers with current service contracts benefit from one PO that covers all equipment, plus pricing can be locked-in for up to 3 years. If you would like more information on a DTS Service Contract that is customized to meet your specific needs and includes all calibration and repairs for one set price, please contact sales@dtsweb.com for a quote.

TECH CENTERS

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

SERVICES	DTS Factory Calibration	DTS Service Contract
Annual Preventative Maintenance	✓	✓
Multi-Point Calibration Service	✓	✓
ISO 17025/A2LA Accredited	✓	✓
On-Site Services (Maintain test schedules, eliminate shipping delays & expenses.)		✓
Repairs (Parts & Labor) or Replacement		✓
Factory-Paid Shipping		✓
Priority Service & Turn-Around		✓
SUPPORT		
Software/Firmware Updates	✓	✓
Worldwide Technical Support (phone/email)	✓	✓
On-Site Tech Support		✓
On-Site Training		✓
Travel and Lodging for Tech Team		✓
ADMINISTRATION & PRICING		
One (1) PO Covers Everything		✓
1, 2 or 3 Year Price Freeze		✓

Front Page News

DTS was just featured on the front page of the O.C. Register business section, one of the largest newspapers in California. Click to read the article titled "[Helmet sensors help Army study brain injury.](#)" or visit the DTS homepage for a link.



DTS company president Steve Pruitt discusses how DTS data recorders and sensors are being used by the Army to collect field data in nearly 50,000 combat helmets in on-going efforts to reduce and treat traumatic brain injuries (TBI).

Team DTS Continues to Grow

Twenty years ago when three crash test engineers started DTS, they likely had no idea that it would grow into an Inc. 5000 leader with over 60 employees and offices worldwide. DTS is proud to introduce these new employees who have recently joined the team.



Jerry Lawrence - Software Engineer

Jerry brings over 17 years of experience in writing both system and application software for a variety of industries to DTS. He holds a Bachelor of Science degree in Computer Science from CSU Chico, plus a Masters of Science in Systems Management from USC.



Lail Hundertmark - Staff Accountant

With 25 years of accounting and finance experience, Lail has worked in a variety of industries including paint, filters, wire processing, forklifts, and most recently metal tuna can manufacturing. He holds a Bachelor of Science in Business Administration and Accounting from Dakota State University.

Teaching Moments

The next generation of engineers are continuously working on projects that may just end up being the next big break-through in technology. In fact, it could even come from this group of California State University of Los Angeles students that recently visited DTS headquarters in Seal Beach.

"You never know what may spark the interest or ingenuity in someone, that's one of the reasons I really enjoy speaking with students. And the reality is, we are all students with the opportunity to learn more each day," commented Mike Beckage, DTS principal and co-founder.

Nearly 100 mechanical and electrical engineer students at CSULA were treated to a 2-hour Principles of Dynamic Data Collection training from Beckage at the end of January. As a follow-up, 5 students and their professors visited DTS for a tour, lunch and discussion about their senior design project. The project involves building an IMU thermal test-bed with a focus on thermal compensation for inertial measurement units. In fact, the team has already built a prototype rate table with a 200:1 gear reducer (in a small box under the rotor) driven by a miniature DC motor with a built-in incremental encoder. The ultimate goal is to get down to very low rates closer to ~ 0.05 deg/sec. Just goes to prove you can never underestimate what ingenuity, teamwork and an electronics budget of \$10 can create!



First generation rate table built by CSULA students with an electronics budget of \$10

Special thanks to Jamie Thomas for demonstrating the DTS ARS calibration station and to software engineer Jose Raffucci who shared valuable engineering and career advice, including the importance of taking a communication class so engineers can effectively communicate and present their ideas and talents to others they work with.



CSULA mechanic and electrical engineering students working on a senior design project take a tour of DTS and engage in some serious tech-talk. Pictured L to R: Professor Ted Nye, Vianney Mateo, Jeremy Sanchez, Mario Gregory, Project Advisor Ron Sobchik, Mike Beckage (DTS), Jamie Thomas (DTS),

Heidi Juarez, and Irvin Rodriguez



Diversified Technical Systems, Inc.
909 Electric Ave. Suite 206
Seal Beach, CA 90740 USA
Phone: +1 562 493 0158
Email: sales@dtsweb.com
www.dtsweb.com

[Forward email](#)



This email was sent to shelly.horvath@dtsweb.com by shelly.horvath@dtsweb.com |
[Update Profile/Email Address](#) | Rapid removal with [SafeUnsubscribe™](#) | [Privacy Policy](#).

Diversified Technical Systems, Inc. | 909 Electric Avenue, Suite 206 | Seal Beach | CA | 90740