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NEWS RELEASE

DTS Introduces SLICE6 AIR-TC Thermocouple DAQ for Advanced Flight Testing

2026-06-18

SEAL BEACH, Calif., June 18, 2026 (GLOBE NEWSWIRE) -- Diversified Technical Systems, Inc. (DTS), a VPG company and leading manufacturer of SWaP-optimized flight test instrumentation and data acquisition systems for aerospace and defense, announced the release of the SLICE6 AIR-TC, a new thermocouple data acquisition system engineered to significantly reduce payload size and cost in flight-test environments.

Purpose-built for temperature measurements, the ultra-compact system packs 24 thermocouple channels into a 42 × 42 mm footprint, making it ideal for size- and weight-constrained applications such as launch vehicles, hypersonic systems, and other advanced aerospace platforms. Designed for harsh environments, it supports real-time Ethernet data streaming, precise time synchronization, and reliable operation from approximately -40°C to +80 °C.

“Customers told us they needed a simpler, more cost-effective way to collect thermocouple data in flight,” said Rollin White, President of DTS. “With SLICE6 AIR-TC, what once required four modules can now be done with one—reducing both system complexity and cost while maximizing valuable payload space.”

At approximately one-third the cost per channel compared to the company’s SLICE6 AIR data acquisition unit, the SLICE6 AIR-TC prioritizes thermocouple measurements into a compact design, enabling engineers to capture critical temperature data more efficiently.

Key Features:

- 42 × 42 × 13 mm, 50 grams
- 500 g shock rated

- Real-time streaming: up to 2k sps/channel;
  IRIG 106 Chapter 10, IENA, or TmNS
- Time Synchronization: IEEE 1588/PTPv2, IRIG-B, & GPS/PPS
- -40°C to +80°C, IP64, MIL-STD-810G, and MIL-STD-461G
- Type K, S, T & E thermocouples

The SLICE6 AIR-TC expands the SLICE6 AIR family of Ethernet-based data acquisition systems designed for mission-critical testing. When integrated with SLICE6 AIR and SLICE6 AIR-BR, it enables engineers to measure parameters such as temperature, force, strain, and vibration on a precision-synchronized timeline –providing accurate, reliable, and repeatable data in the most demanding test environments.

For more information, visit: **https://dtsweb.com/products/data-acquisition-systems/slice6-air-tc/**.

About DTS
DTS, a VPG company, designs and manufactures miniature, rugged data acquisition systems and sensors for safety and performance testing across aerospace, defense, automotive, and biomechanics applications. The company is a global leader in in-dummy data acquisition and the manufacturer of the WIAMan blast test manikin for the U.S. Army. Headquartered in Seal Beach, California, DTS supports customers worldwide.

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Photos accompanying this announcement are available at

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Slice6 Air-TC product photo

The SLICE6 AIR-TC prioritizes thermocouple measurements into a compact design, enabling engineers to capture critical temperature data more efficiently.

Slice6 Air TC

The SLICE6 AIR-TC, a miniature 24-channel data acquisition system with real-time streaming. Source: Vishay Precision Group