SLICE MICRO & SLICE NANO
Miniature Data Recorders

SLICE MICRO and SLICE NANO are standalone data acquisition systems that are modular, rugged and user-configurable. SLICE supports a variety of sensors to accurately measure acceleration, strain, voltage and temperature.

Features
- SLICE modules easily configure to create the exact features and channel count needed. Stack up to 24 channels per base and daisy-chain up to hundreds of channels per test.
- Intuitive, easy-to-use software
- Lightweight & extremely small
- 16 GB direct-write flash memory
- Expanded sampling ranges:
  - Minimum 10 sps per channel
  - Up to 200k sps on ≤24 channels per stack
  - Up to 500k sps on ≤3 channels per stack
- Supports a variety of sensors, including full and half-bridge sensors, strain gauges, IEPE, voltage input, thermocouples
- SLICE MICRO offers built-in triaxial accelerometers, angular rate sensors, and external IEPE (piezo-electric) sensor inputs
- Complies with ISO 6487 and SAE J211 recommended practices, as well as NHTSA and FAA requirements
- BASE+ is compatible with all legacy SLICE MICRO & NANO

Now with BASE+
New features include twice the memory, longer battery life, lower power, higher throughput & up to 10x faster sampling

SLICE is a modular data acquisition system featuring unmatched flexibility, technology and reliability in an ultra-small size. Available in two form factors, both SLICE MICRO and SLICE NANO are ideal for a variety of critical test applications.

The foundation of the system is the BASE SLICE that contains the microprocessor, memory and all control circuits for managing multiple 3-channel SLICEs that can be stacked in different channel count and sensor input configurations. A simple interface provides power, trigger and communication signals for chaining multiple SLICE stacks and connecting to your PC.

SLICE MICRO data acquisition system shown in a 6-channel configuration that supports IEPE sensors.

Software
DTS offers two great software options for all SLICE products. SLICEWare offers fast, easy tools for storing sensor information and performing data collection. DataPRO offers a full-featured database and user interface for tracking sensor information, creating test objects and test setups, performing diagnostic routines and running tests. Both software options feature the most advanced self-diagnostics available plus support for EQX and numerous data exchange file formats.
Specifications

**BASE+ SLICE (NANO & MICRO)**

<table>
<thead>
<tr>
<th>Number of SLICEs Per Stack</th>
<th>Total Channel Count</th>
<th>Maximum Sampling Rate Per Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3 ch</td>
<td>500000</td>
</tr>
<tr>
<td>2</td>
<td>6 ch</td>
<td>400000</td>
</tr>
<tr>
<td>3</td>
<td>9 ch</td>
<td>300000</td>
</tr>
<tr>
<td>4</td>
<td>12 ch</td>
<td>300000</td>
</tr>
<tr>
<td>5</td>
<td>15 ch</td>
<td>200000</td>
</tr>
<tr>
<td>6</td>
<td>18 ch</td>
<td>200000</td>
</tr>
<tr>
<td>7</td>
<td>21 ch</td>
<td>200000</td>
</tr>
<tr>
<td>8</td>
<td>24 ch</td>
<td>200000</td>
</tr>
</tbody>
</table>

*Not including required BASE SLICE*

**BASE SLICE (NANO & MICRO)**

- **Size:** MICRO 42 x 42 x 7 mm (1.65 x 1.65 x 0.28")
- **Mass:** NANO 26 x 31 x 5.5 mm (1.02 x 1.22 x 0.22")
- **Sampling Rate:**
  - Up to 500 ksp/s on 1 channel
  - Up to 400 ksp/s on 2 channels
  - Up to 300 ksp/s on 4 channels
  - Up to 200 ksp/s on 8 channels
- **Connectors:** Omnetics circular locking, three single-channel 7-pin or one three-channel 16-pin

**IEPE SLICE (MICRO only)**

- **Type:** Built-in triaxial angular rate sensor
- **Size:** MICRO 42 x 42 x 7 mm (1.65 x 1.65 x 0.28")
- **Mass:** 28 g (0.99 oz)
- **Ranges:**
  - ±300, 1500, 5k, 18k deg/sec
- **Bandwidth:** DC to 40 kHz, programmable
- **Gain Options:** 1 or 10, user programmable

**ACCEL SLICE (MICRO only)**

- **Type:** Built-in triaxial accelerometer
- **Size:** MICRO 42 x 42 x 7 mm (1.65 x 1.65 x 0.28")
- **Mass:** 30 g (1.06 oz)
- **Ranges:**
  - ±50, 100, 500 g
- **Bandwidth:** See calibration sheet

**BATTERY SLICE (NANO only)**

- **Type:** Optional backup battery
- **Size:** NANO 26 x 31 x 4 mm (1.02 x 1.22 x 0.16")
- **Mass:** 7 g (0.25 oz)
- **Charge Time:** ~15 min. from complete discharge to full charge
- **Discharge Rate:** ~16 seconds at 1 A; ~2 minutes at 400 mA

**ACCESSORIES**

See website for full line of SLICE NANO & SLICE MICRO accessories