SLICE BUYER’S GUIDE

Step 1: CHOOSE SLICE MICRO™ or SLICE NANO™

SLICE MICRO
- 3-channel SLICES to create system Stack
- Connectors built into case enclosure
- 42 x 42 mm footprint
- Rugged enclosure perfect for high stress environment
- Available with embedded sensors
- Identical electronics as SLICE NANO

SLICE NANO
- 3-channel SLICES to create system Stack
- Connectors via factory installed cable
- 26 x 31 mm footprint
- Recommended for embedded applications

Step 2: BUILD YOUR SYSTEM

BASE+ SLICE
- Microprocessor
- 16 GB on-board flash memory
- Com, Power, and Status controls
- Connection to PC and additional stacks
- Records up to 500 ksp/s/channels
- Available in MICRO and NANO

BRIDGE SLICE
- For use with a variety of sensors:
  - Strain gage
  - Wheatstone bridge
  - Voltage based
  - MEMS piezo-resistive
- 3 channels
- Available in MICRO and NANO

IEPE SLICE
- For use with Piezo-electric sensors
- 3 channels
- 10/32 Coaxial connector
- Available in MICRO and NANO

ACCEL SLICE
- Internal 3-axis accelerometer
- ±25, 100, 500 g
- Available in MICRO ONLY

ARS SLICE
- Internal 3-axis angular rate sensor
- ±300, 1500, 8K deg/sec
- Available in MICRO ONLY
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**Step 3: DETERMINE NUMBER OF CHANNELS NEEDED**

- Each SLICE Stack consists of 1 BASE SLICE and up to 8 individual 3-channel SENSOR INPUT SLICEs; maximum of 24 channels per Stack; up to 384 channels per system
- SLICE Stacks can be daisy-chained for larger channel systems for placement at different locations

**Step 4: CONNECT MULTIPLE SLICE STACKS**

**SLICE MICRO CHAIN CABLE**
- 12-pin to 12-pin locking connector
- Data, power, and control signals

**SLICE NANO CHAIN CABLE**
- 12-pin to 12-socket locking connector
- Data, power, and control signals
- For connections longer than 8 inches

Connections less than 8 inches
Connections longer than 8 inches
Step 5: **COMMUNICATIONS ACCESSORIES**

**SLICE END OF CHAIN TERMINAL**
- USB Communication
- 9 to 15 VDC power input
- Supports up to 4 Stacks in daisy-chained configuration

**SLICE DISTRIBUTOR**
- Ethernet Communication
- 9 to 20 VDC power input
- Supports up to 12 stacks in 4 daisy-chained configuration
- Recommended for high channel count configurations

Step 6: **BATTERY OPTIONS**

**RECHARGEABLE 9.6 V NiMH BATTERIES**
- Allows up to 40 min runtime with 6 channel SLICE system
- Package of 4 batteries ensures you’ll always have back-ups ready

**RECHARGEABLE 11.1 VDC Li ion BATTERIES**
- Available in 3 capacities:
  - 2200 mAh
  - 4400 mAh
  - 6600 mAh

**SLICE NANO STACK BATTERY**
- Charges whenever sufficient (2.11 V) input power is connected to NANO BASE
- ~15 min from complete discharge to full charge
- Discharge rate 16 sec at 1 A, 2 min at 400 mA

**POWER REQUIREMENTS**

<table>
<thead>
<tr>
<th>12V POWER INPUT/ 5 V SENSOR EXCITATION</th>
<th>IDLE</th>
<th>EXCITATION</th>
<th>RECORDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE + SLICE w/ BRIDGE SLICE</td>
<td>65 mA</td>
<td>131 mA</td>
<td>157 mA</td>
</tr>
<tr>
<td>BASE + SLICE w/ ACC SLICE</td>
<td>65 mA</td>
<td>108 mA</td>
<td>135 mA</td>
</tr>
</tbody>
</table>
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CABLE KIT OPTIONS: BASE CABLE KIT

MICRO BASE CABLE KIT  13000-40010
NANO BASE CABLE KIT  13000-40030

SLICE MICRO AND NANO BASE CABLE KIT includes:
Qty 1.  End-of-Chain Terminal
Qty 1.  Power supply and cable
Qty 1.  USB cable
Qty 1.  Start/Event Switch

TEST ARTICLE

CONNECTIONS FOR:
- ON signal
- 9-15 VDC power input
- Status
- Start/Record
- Event/Trigger

12 V 2.5 A Power Supply
USB Cable
End Of Chain Terminal
Power Cable
Start/Event Switch
CABLE KIT OPTIONS: DISTRIBUTOR CABLE KIT

13000-40050

SLICE DISTRIBUTOR CABLE KIT includes:

- Qty 1: Interface Device
- Qty 1: Systems Cable
- Qty 1: Power supply and cable
- Qty 1: Ethernet Cable

15 V, 4 A Power Supply

SYSTEM CABLE

CONNECTIONS FOR:
- 0-15 VDC power input
- Status
- Start/Record
- Event/Trigger
CHAIN CONNECTORS: SLICE MICRO™ and SLICE NANO™ Base

12-PIN CHAIN CONNECTOR

12-SOCKET CHAIN CONNECTOR

12-PIN CHAIN CONNECTOR

SENSOR CONNECTORS: SLICE MICRO™ and SLICE NANO™ Bridge

7-PIN SENSOR CONNECTOR

7-PIN SENSOR CONNECTOR

S-MCP-16-ID SENSOR CONNECTOR

SENSOR CONNECTORS: SLICE MICRO™ IEPE

BNC to 10/32 COAXIAL ADAPTOR CABLE

13000-30590

Cable can also be purchased directly at:
http://www.dytran.com