

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



13000-2001X



13000-10010

BASE SLICE

- Microprocessor
- 7 GB on-board flash memory
- Com, Power, and Status controls
- Connection to PC and additional stacks
- Records up to 120 ksp/s/channel
- Available in MICRO and NANO



13000-2002X



13000-10020

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



13000-10030

IEPE SLICE

- For use with Piezo-electric sensors
- 3 channels
- 10/32 Coaxial connector
- Available in MICRO ONLY



13000-101X0

ACCEL SLICE

- Internal 3-axis accelerometer
- ±50, 100, 500 g
- Available in MICRO ONLY



13000-102X0

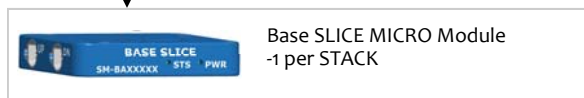
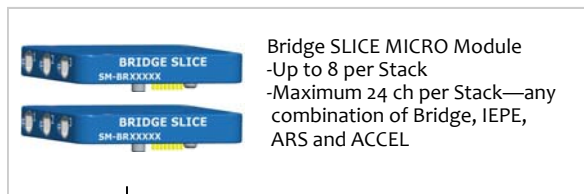
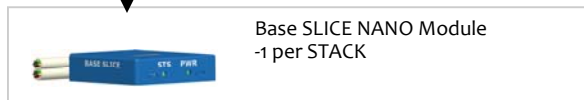
ARS SLICE

- Internal 3-axis angular rate sensor
- ±300, 1500, 8K, 12K, 50K deg/sec
- Available in MICRO ONLY

SLICE BUYER'S GUIDE

Step 3: DETERMINE NUMBER OF CHANNELS NEEDED

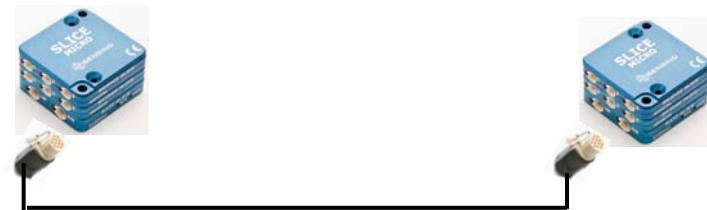
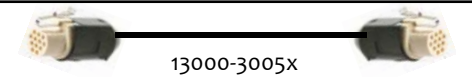
- Each SLICE Stack consists of 1 BASE SLICE and up to 8 individual 3-channel SENSOR INPUT SLICES; maximum of 24 channels per Stack; up to 384 channels per system
- SLICE Stacks can be daisy-chained for larger channel systems for placement at different locations



Step 4: CONNECT MULTIPLE SLICE STACKS

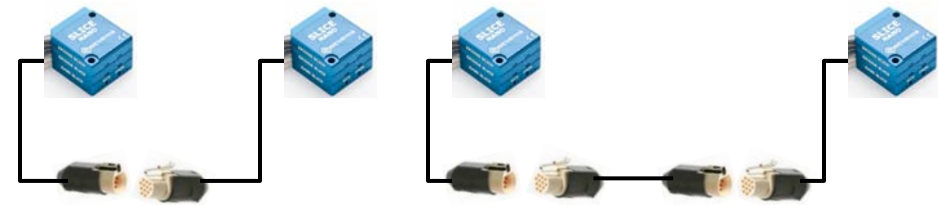
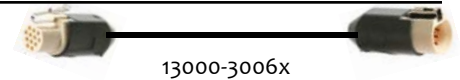
SLICE MICRO CHAIN CABLE

- 12-pin to 12-pin locking connector
- Data, power, and control signals



SLICE NANO CHAIN CABLE

- 12-pin to 12-pin locking connector
- Data, power, and control signals
- For connections longer than 8 inches



Connections less than 8 inches

Connections longer than 8 inches

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Step 5: COMMUNICATIONS ACCESSORIES

SLICE END OF CHAIN TERMINAL



13000-30010

- USB Communication
- 9 to 15 VDC power input
- Supports up to 4 Stacks in daisy-chained configuration

SLICE SYSTEM INTERFACE



13000-30020

- USB Communication
- 9 to 20 VDC power input
- Supports up to 4 Stacks in daisy-chained configuration
- Recommended for multi-stack configuration

SLICE DISTRIBUTOR



13000-30030

- Ethernet Communication
- 9 to 20 VDC power input
- Supports up to 16 stacks in 4 daisy-chained configuration
- Recommended for high channel count configurations

Step 6: BATTERY OPTIONS

RECHARGEABLE 9.6 V NiMH BATTERIES



13000-40060

- 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 LiPo BATTERIES



13000-302X0

- Available in 3 capacities:
 - 2200 mAh
 - 4400 mAh
 - 6600 mAh

SLICE NANO STACK BATTERY



13000-20030

- Charges whenever sufficient ($\geq 11V$) 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

10 V POWER INPUT/ 5 V SENSOR EXCITATION	IDLE	RECORDING
BASE SLICE	40 mA	110 mA
BRIDGE SLICE	2 mA	55 mA
SENSOR LOAD (350 ohm/ 5 V SENSOR EXCITATION)	0 mA	50 mA

SINGLE STACK POWER CONSUMPTION AT 5 V SENSOR EXCITATION

	TOTAL
BASE (QTY)	1
BRIDGE (QTY)	2
SENSOR LOAD (% of 350 ohm)	100
IDLE CURRENT	44 mA
IDLE POWER	330 mW
RECORD CURRENT	320 mA
RECORD POWER	2400 mW

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CABLE KIT OPTIONS: BASE CABLE KIT

SLICEWare SOFTWARE



TEST ARTICLE



USB CABLE



END-OF-CHAIN TERMINAL

CONNECTIONS FOR:

- ON SIGNAL
- 9-15 VDC POWER INPUT
- STATUS
- START RECORD
- EVENT/TRIGGER



START/RECORD BUTTON



12V, 2.5A POWER SUPPLY

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. Event/trigger cable

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CABLE KIT OPTIONS: SSI CABLE KIT

SLICEWare SOFTWARE



USB CABLE

TEST ARTICLE

15 V, 4 A POWER SUPPLY



SSI AUX TERMINAL



CONNECTIONS FOR:

- ON SIGNAL
- STATUS
- START RECORD
- EVENT/TRIGGER

CHAIN CABLE

SLICE BUYER'S GUIDE

CHAIN CONNECTORS: SLICE MICRO™ and SLICE NANO™ Base



12-PIN CHAIN CONNECTOR



13000-30170



12-SOCKET CHAIN CONNECTOR



13000-30180

12-PIN CHAIN CONNECTOR



13000-30170

SENSOR CONNECTORS: SLICE MICRO™ and SLICE NANO™ Bridge



7-PIN SENSOR CONNECTOR



13000-30120



7-PIN SENSOR CONNECTOR



13000-30120

S-MCP-16-ID SENSOR CONNECTOR



13000-30130

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>