

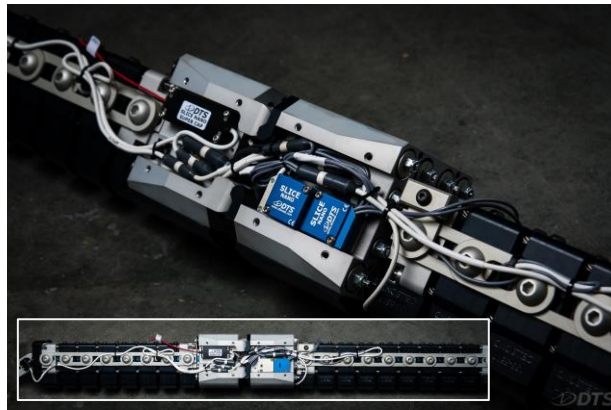
MEETS SPECIFICATIONS FOR  
EU & US NCAP TESTING

## SLICE Flexible Pedestrian Legform Impactor Integrated Data Acquisition for Cable-Free Operation

### APPLICATIONS

- Flexible Pedestrian Legform Impactor

SLICE NANO also works with Free Motion and Pedestrian Headforms



Each FLEX Leg supports up to 48 channels of integrated SLICE NANO data acquisition. The turn-key solution is engineered to maintain proper mass, CG and moments. The embedded system eliminates trailing cables that may get tangled or cause issues with noise or data loss.

With over 7,000 channels of SLICE NANO sold worldwide, DTS offers the leading integrated data acquisition solution for pedestrian legforms. The cable-free solution is designed to be armed with a PC, disconnected, then powered and launched any time, offering the ultimate in flexibility and reliability. The system can be triggered with level trigger or a contact closure and writes data to flash memory. A quick-charging super capacitor ensures reliable data capture and storage during the launch event.



### Features

- Cable-free operation
- Engineered to assure proper mass, CG and moments
- Level trigger or contact closure
- Supports up to 48 channels of data acquisition per leg
- Super capacitor powered during launch
- Data writes directly to 16 GB flash memory
- Intuitive, easy-to-use software
- Meets NHTSA, FAA, ISO 6487 and SAE J211 data acquisition practices

### Software

DTS offers two powerful software options for the SLICE legform. Ideal for standalone systems, SLICEWare provides fast, easy tools for storing sensor information, performing data collection, viewing and exporting data. For labs using DataPRO, this fully-featured software offers a comprehensive database and user interface for tracking sensor information, creating test objects and test setups, performing diagnostic routines, and conducting tests. Both software packages feature the most advanced self-diagnostics, plus support for EQX, ISO MME and many other data exchange file formats.

### PRODUCTS

Diversified Technical Systems designs and manufactures data acquisition systems and sensors for the experienced test professional.



**DTS**

[www.dtsweb.com](http://www.dtsweb.com)

DSH-022 (Rev 08.2017)

## SERVICES

24/7 Worldwide Tech Support  
 ISO 17025 (A2LA) Calibration  
 Onsite Calibration & Training  
 Application Consulting  
 Software Integration  
 OEM/Embedded Applications

## TECH CENTERS

North America  
 Europe  
 Asia-Pacific

## HEADQUARTERS

Seal Beach, California USA

## CONTACT US

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## Specifications



### BASE+ SLICE (NANO)

One (1) required per stack – system microprocessor & memory  
 Size: 26 x 31 x 6.5 mm (1.02 x 1.22 x 0.26")  
 Weight: 14.2 g (0.50 oz)  
 Connectors: Omnetics, circular locking, 12-pin



### BRIDGE SLICE (NANO)

Three (3) inputs for external sensors  
 Size: 26 x 31 x 5.5 mm (1.02 x 1.22 x 0.22")  
 Weight: 13.8 g (0.49 oz)  
 Connectors: Omnetics, circular locking; 3 single-channel 7-pin or 1 three-channel 16-pin



### SUPERCAP+

Designed specifically for the Pedestrian Legform  
 Size: 55 x 15 x 22 mm (2.2 x 0.6 x 0.87")  
 Weight: 27 g (0.95 oz)  
 Charge Time: ~2 minutes  
 Discharge Rate: >3 seconds for 12 channels  
 >1.5 seconds for 24 channels

### SIGNAL CONDITIONING

Number of Channels: 3 differential, programmable  
 Input Range: ±2.4 V (2.5 V center)  
 Bandwidth: DC to 35 kHz, programmable  
 Gain Range: 1.0-1280, programmable  
 Auto Offset Range: 100% of effective input range  
 Bridge Support: Software controlled half-bridge completion  
 Shunt Check: Emulation method, automatically calculated  
 Sensor ID: Maxim Integrated (Dallas) silicon serial number  
 Linearity (typical): ≤0.2% (gain 1 to 320), ≤0.5% (gain >320)  
 Accuracy: 0.5% including reference uncertainty

### ANALOG-TO-DIGITAL CONVERSION

Type: 16-bit SAR (Successive Approximation Register) ADC, one per channel, simultaneous sample of all channels

### EXCITATION

Method: Independent regulator for each channel  
 Voltage: 5.0 V, up to 20 mA, short circuit safe  
 Power Management: Shutdown when not armed or recording

### ANTI-ALIAS FILTER

Fixed Low Pass: 4-pole Butterworth, standard knee frequency at 40 kHz  
 Adjustable Low Pass: 5-pole Butterworth set by software from 1 Hz to 35 kHz  
 Response: Meets SAE J2111/ISO6487 response corridors

### SOFTWARE

Control: SLICEWare, DataPRO  
 Operating Systems: Windows 7, 8 or 10 (32/64-bit)  
 Communication: USB

## Ordering Information

The DTS Flexible Pedestrian Legform Impactor kit can be customized for specific requirements – see available options below.  
 Contact [sales@dtsweb.com](mailto:sales@dtsweb.com) for more information.

Choose FLEX System Kit	DTS Part Number	Description +
	13000-40070	SLICE NANO 12-channel FLEX System Kit
	13000-40080	SLICE NANO 15-channel FLEX System Kit
	13000-40090	SLICE NANO 18-channel FLEX System Kit
	13000-40100	SLICE NANO 24-channel FLEX System Kit

Kit Includes: SLICE NANO BASE, NANO Bridges, Supercap+, NANO Stack Extender, SLICE FLEX quick-release bracket, sensor connector assemblies

Choose Launcher integration kit	DTS Part Number	Description
	13000-40110	SLICE FLEX Launcher Integration Kit, USB
	13000-40130	SLICE FLEX Launcher Integration Kit, Ethernet

Kit Includes: SLICE USB or Ethernet Interface, SLICE UI/EI NANO chain, SLICE FLEX quick release, SLICE FLEX latching chain

+ Add Software (if not already owned)	DTS Part Number	Description
	10920-03002	SLICEWare
	10920-04010	DataPRO



Specifications subject to change without notice.  
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