# **PRODUCT DATASHEET**

# **SLICE GPS Accessory Kit**

GPS Location, Velocity and Time Accessory for SLICE DAS



## **Description**

The DTS SLICE GPS Accessory Kit brings accurate GPS time and location capabilities to the SLICE data acquisition product line. Location, time and velocity information are provided through a standard NMEA data stream and a 1 PPS time signal is captured by the SLICE DAS channels. Software post-processing provides channel-to-channel synchronization, as well as data alignment with location, network time and measurement data.

#### **Features**

- Kit includes GPS receiver, break-out cable, configuration cable, two power option cables
- Simple cable connections support SLICE NANO, SLICE MICRO, SLICE IP68 and SLICE PRO data acquisition systems (DAS sold separately)
- Software utility for aligning GPS data and time to SLICE analog channel data
- Rugged mounting options for GPS receiver
- Within ±1 µs time alignment across all DTS data channels (subject to limitations of the sample rate)
- Provides time, date, latitude, longitude, velocity, elevation and other measurement data in standard NMEA format

## **Specifications**

GPS	
Size:	96.1 mm diameter, 49.5 mm height
Weight:	201 g
Mounting Method:	Pole, Panel
Compatibility:	SLICE MICRO, NANO, IP68
	SLICE PRO (via cable options)
Cable:	9.14 m
Power:	40 mA @ 12 V
Acquisition Time:	<2 s Reacquisition, 1 s Hot, 38 s Warm, 45 s Cold
Accuracy:	<3 m 95%, 0.1 kt RMS steady (WAAS)
Precision Time:	±1 µs (subject to SLICE sample rate)
Coarse Time:	<1 s
Measurement Range:	2 g, 999 knots max, altitude >60000 ft.
Update Rate:	15
ACCESSORY KIT POWER	
Voltage Input:	8-33 V from SLICE or external power
ENVIRONMENTAL	
Operating Temp.:	-30 to 80°C
SERIAL PORT AND NMEA	
Voltage:	RS-232 levels
Update Rate:	1 Hz
Default NMEA:	RMC @ 1200 baud
NMEA Configuration:	Source code and programming cable is provided for the user to experiment with different NMEA sentences (e.g., GGA, COLUTED brack to the 1000
	GSV, VTG), baud rates (e.g., 4800, 19200) and update rates (e.g., 1 Hz or 5 Hz). The baud rate sets the minimum DAS sample rate.



#### APPLICATIONS

- Vehicle track testing
- Aerospace analysis
- Asset monitoring
- Blast testing
- Acoustic monitoring
- Embedded monitoring
- Structural health monitoring

#### PRODUCTS

DTS offers a full line of rugged data acquisition systems and smart sensors for dynamics testing.

### WORLDWIDE SUPPORT

HELP CENTER (24/7/365 Access) DTS Technical Centers Global Sales Partners

# HEADQUARTERS

Seal Beach, California USA

#### CONTACT US

Phone: +1 562 493 0158 Email: sales@dtsweb.com Web: www.dtsweb.com