TDAS G5 DOCKING STATIONS
Robust Interface Solutions for TDAS G5 DAS Module

APPLICATIONS

- Aerospace analysis
- Automotive safety
- Biomechanics
- Blast testing
- Helicopter & aircraft
- Impact testing
- Load cell barriers
- Ride & handling

For on-board or load cell wall applications, the TDAS G5 32-channel DAS pairs with either the TDAS G5 Vehicle Docking Station (VDS) or the TDAS G5 iPORT. Each mounting solution offers application-specific features and makes test set up quick and reliable with a robust connector panel for sensor inputs, power and communication. Designed for high shock environments, both the TDAS G5 Vehicle Docking Station and TDAS G5 iPORT offer quick and easy removal of the DAS module for unparalleled flexibility and features.

TDAS G5 Vehicle Docking Station (top) is designed to house the DAS module for on-board testing. The TDAS G5 iPORT mounts in smart load cell walls for integrated DAS solutions. The robust connector panel for sensor inputs, power and communication makes test set ups quick and reliable.

The TDAS G5 DAS module offers maximum flexibility as it designed to move quickly from in-dummy to on-vehicle to in-wall applications.

Features

- Intuitive, easy-to-use software
- Durable, rugged and reliable: factory tested to 100 g
- TDAS G5 VDS has 32 sensor connectors (LEMO or Tajimi) and 16 channels of digital inputs
- TDAS G5 VDS daisy-chains for high channel count tests
- TDAS G5 VDS internal battery supplies over 1 hour of power
- TDAS G5 iPORT is designed to mount in smart load cell barrier wall for integrated DAS. Four D-Sub connectors each support 8 sensor inputs.
- Certified to the NHTSA, FAA, ISO 6487 and SAE J211 data acquisition practices

Software

TDAS Control software provides easy-to-use tools for storing sensor information and performing data collection. Advanced features such as automatic sensor assignment, detailed channel diagnostics, and real-time data display supports successful testing and quality data every time.

PRODUCTS

DTS offers a full line of dynamic data acquisition systems and smart sensors for high shock testing.

DTS
Advanced Measurement Solutions
www.dtsweb.com

Specifications

MODEL:	TDAS G5 VDS	TDAS G5 iPORT
Connectors	Removable sensor connector panel with 32 sensor input connectors (1 per channel) Select LEMO or Tajimi connector Digital input connectors: 26-pin LEMO 2B Dual COM connectors: 19-pin LEMO 2B Power connector: 4-pin LEMO 2B	4 sensor input connectors (8 analog/digital channels per connector) Sensor input connector: 44-pin D-Sub Power, Ethernet, Control, Status and Event connector: 25-pin D-Sub
Communication	10/100BaseT Ethernet switch for daisy chaining additional docking stations or TDAS PRO racks	10/100BaseT
Sensor Excitation	2 V / 5 V	5 V
Power/Event/ Comm Inputs	Isolated Daisy-chain ready	Protected
Internal Battery	1 hour standalone operation standard 2 hour optional	N/A
Digital Inputs	16 fully-isolated, protected, contact closure channels	32 channels

PHYSICAL	
TDAS G5 VDS	
Size:	235 x 60 x 136.5 mm (9.25 x 2.36 x 5.37")
Weight:	2.5 kg (5.52 lb)
TDAS G5 iPORT	
Size:	227 x 66 x 64 mm (8.94 x 2.60 x 2.52")
Weight:	912 g (2.01 lb)
TDAS G5 DAS	
Size:	25 x 54 x 85 mm (0.98 x 2.13 x 3.35")
Weight:	200 g (7.05 oz)

ENVIRONMENTAL	
Operating Temp.:	0-50°C (32-122°F)
Shock:	100 g peak, 12 msec (docking stations)

POWER	
Supply Voltage:	13.8 V nominal (11-15 V)
Maximum Power:	Approximately 1.5 A per 32-channel system with 350 ohm bridges at 5.0 V excitation (depends significantly upon connected sensors)
Protection:	EMI, RFI, ESD, reverse current
Power Control:	Remote power control line for switching unit on/off

CONTROL SOFTWARE	
Compatibility:	Standard TDAS Control Software
Operating Systems:	Windows® XP, Vista, 7

Authorized DTS Representative:

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