

TDAS Wireless Solutions

Umbilical Free Crash Testing

The convenience of life without wires has been accepted by crash laboratories around the globe. For customers who like to run sled, vehicle or other tests without umbilical cables, DTS offers a complete line of solutions that no other DAS supplier can match.

Do you want to communicate with your TDAS remotely? The TDAS PLUS Wireless Ethernet is your solution.

Do you want to control testing systems such as DAS, lights and imagers, remotely? Then the TDAS PLUS Wireless I/O is your answer.

Is reliable, on-board power your biggest concern? DTS has two solutions; the TDAS PLUS Smart Battery and TDAS PLUS Mini Smart Battery.

We can help you choose the right product for your application.

Crash  Ready



TDAS PLUS Wireless I/O (WIO)

- Crashworthy, wireless 16-channel input/output
- Transmits between two locations such as the crash vehicle and the control room.

The TDAS PLUS Wireless I/O system includes two crash-hardened units that wirelessly transmit eight on/off channels in each direction. State-of-the-art RF technology, ultra low power and fully isolated inputs and outputs that are compatible with 3 to 30 volt systems make it the premier choice for demanding applications.



TDAS PLUS Wireless Ethernet (WETn)

- Crashworthy, wireless Ethernet communications and data download
- Reliably transmits data between two locations such as the impact sled and the control room

The cornerstone of DTS' wireless approach is our time tested, crash-hardened TDAS Wireless Ethernet system. This device uses industry-standard 802.11b/g/n protocols and antenna(s) to optimize performance. This multi-function device offers the flexibility to wirelessly connect multiple Ethernet networked devices in a chain. Push button technology configures wireless security.



TDAS PLUS Mini Smart Battery (left) and TDAS PLUS Smart Battery (right)

TDAS PLUS Smart Battery and TDAS PLUS Mini Smart Battery

- Reliable, on-board power
- Eliminates trailing cables

TDAS PLUS Smart Battery and TDAS PLUS Mini Smart Battery devices include Lithium polymer battery systems for onboard DAS and cameras with Ethernet interface for battery status. Complete power solutions for severe testing applications.



TDAS WIRELESS SOLUTIONS

TDAS PLUS WIO

Crashworthy, wireless on/off signals to/from control room and test vehicle/sled

- Matched Master/Slave pair with 8 inputs and 8 outputs
- Optically isolated and compatible with 3-30 V logic and PLCs
- LED indicators for each channel
- 902-928 MHz spread spectrum with range up to 300 m
- Several antenna options to optimize performance
- <150 msec latency
- Nominal 12 V input power with protection
- If communication is lost,
 - I/O channels latch in most recent state
 - Status output indicates loss of signal
- Can be used with any system or device capable of sending an on/off, high/low or equivalent signal

TDAS PLUS WET

Crashworthy, wireless Ethernet communications

- Vehicle-mounted WiFi bridge/client
- Control room WiFi access point
- Supports 802.11b/g/n
- 300 Mbps maximum throughput
- 100 Mbps auto sensing
- 2.4 GHz operating frequency
- 250 meters maximum range
- LED status indicators
- Nominal 12 V input power with protection
- supports modern encryption standards - WPA/WPA2, PSK, TKIP, AES, TKIP and AES, and Radius

TDAS PLUS SMART BATTERY

Reliable on-board power for DAS, **iDummies** and imagers

- 400 watt hour capacity
- 18-36 VDC input
- 18-36 VDC output (typically 24-28V when discharging)
- Fully monitored battery status via TDAS Control software or web browser
- LED indicators for battery capacity (full, 3/4, 1/2 and 1/4)
- Fast charge (less than two hours)
- Built and designed for use with the TDAS PLUS System Distributor

TDAS PLUS MINI SMART BATTERY

Reliable, on-board power

- 18-36 VDC input
- One 18-36 VDC (250 W maximum) output and ten 12/15 VDC (4.5 A) outputs
- Fully monitored battery status via TDAS Control software or web browser
- LED indicators for battery capacity (full, 3/4, 1/2, and 1/4) status and communication
- Fast charge (less than two hours)

Specifications may be revised without notice.



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