

APPLICATIONS

- Acoustic studies
- Aerospace analysis
- Automotive safety
- Biomechanics
- Blast testing
- Embedded monitoring
- Helicopter & aircraft
- Impact testing
- In-dummy
- Injury investigation
- Load cell barriers
- Pedestrian head & leg form
- Ride & handling
- Sport & safety equipment
- Vibration testing
- Wind tunnel

SLICE PRO DISTRIBUTOR

Remote Control Signal Integration, Communication, and Power Distribution



The SLICE PRO DISTRIBUTOR integrates power, communication, status and event signal distribution for multiple ATD and SLICE PRO systems into one small, crashworthy solution.

The rugged SLICE PRO DISTRIBUTOR from DTS provides a central hub for signal integration and power distribution for multiple ATD and SLICE PRO systems. Event and status signals from each connected system are isolated internally and then integrated to provide a single event and status signal for the entire system. Only one connection to a control PC, external switch, or wireless unit is needed to accomplish all communication functions, diagnostics, system status monitoring, and data downloads. The SLICE PRO DISTRIBUTOR supports a mix of up to 820 high-speed data channels within a single vehicle, streamlining operations for test engineers managing high-channel-count tests.

Features

- Durable, rugged and reliable; factory tested to 100 g
- The total output power of 588 W supports a mix of up to 820 channels of In-Dummy and SLICE PRO DAS
- LED indicators for individual system status and power status
- Wide range DC voltage input provides 8 regulated 15 VDC outputs
- Designed to optimally dissipate heat
- Connect one or two POWER PRO batteries to maintain ATD power and Ethernet during loss of primary external power
- Super Cap redundant power backup for support trigger/status signals
- Includes over- and under-voltage protection, overcurrent protection, and power input polarity protection
- Industry-standard Ethernet communications 10/100/1000BaseT
- Fully integrated within the DTS DataPRO environment for seamless configuration and system monitoring; includes an HTML interface for standalone access.



Compact and flexible, the SLICE PRO DISTRIBUTOR supports SLICE6, SLICE PRO, SLICE NANO, TDAS G5, TDAS PRO, as well as competing DAS systems.

Specifications

PHYSICAL

Size:	235 x 90 x 131.5 mm (9.25 x 3.54 x 5.18 in)
Weight:	4.15 kg (11.35 lb)
Mounting Method:	8 Integral threaded mounting holes (M6 x 1)
Connectors:	LEMO, Micro-D

ENVIRONMENTAL

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

MAIN POWER CONNECTOR

Input Voltage(s):	36-56 VDC
Protection:	Reverse polarity; over- and under-voltage; overcurrent

BATTERY INPUT CONNECTOR (2 PER UNIT)

Input Voltage(s):	9-28 VDC
Protection:	Reverse polarity; over- and under-voltage; overcurrent

UMBILICAL CONNECTOR

Event Input:	Bidirectional, isolated, contact closure
Start Record Input:	0-5 V
Status Output Signal:	0-5 V, 20 mA
Communications:	Ethernet 10/100/1000BaseT/Tx

CONTROL CONNECTOR

Event Input:	Bidirectional, isolated, contact closure and logic-compatible: 0-5 V voltage input
Start Record Input:	0-5 V, bidirectional, isolated
Status Output Signal:	0-5 V, 20 mA

COM INPUT (2 PER UNIT)

Input Connector:	LEMO 2B "EGG", 19-pin
Compatibility:	POWER PRO COM A/B Connector
Event Input:	Bidirectional, isolated, contact closure
Start Record:	0-5 V
Status Input Signal:	0-5 V, 20 mA
Status Output Signal :	0-5V, 20 mA
Communications:	Ethernet 10/100BaseT/Tx
Isolation:	Transformer

ATD CONNECTOR (4 PER UNIT)

Compatibility:	System Connector
Event Input:	Bidirectional, isolated, contact closure
Start Record Output:	0-5 V, 20 mA
Status Signal:	0-5 V, 20 mA
Communications:	Ethernet 10/100BaseT/Tx
Isolation:	Transformer
Protection:	Reverse polarity; over- and undervoltage; overcurrent
Max Power:	270 W (All Ports)

SLICE PRO CONNECTOR (4 PER UNIT)

Compatibility:	System Connector
Event Input:	Bidirectional, isolated, contact closure
Start Record Output:	0-5 V, 20 mA
Status Signal:	0-5 V, 20 mA
Communications:	Ethernet 10/100BaseT/Tx
Isolation:	Transformer
Protection:	Reverse polarity; over- and undervoltage; overcurrent
Max Power:	270 W (All Ports)

SLICE PRO BUS DOWN CONNECTOR (TDM Only)

Compatibility:	SLICE PRO Down (Pwer/Sts/Trig)
Communications:	SLICE PRO Trigger Distributor Module
	None



The LED indicators make it easy to manage individual system status and power status for high-channel count tests. The SLICE PRO DISTRIBUTOR output power of 588 W supports a mix of up to 820 channels of in-dummy and SLICE PRO DAS.

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