Specifications

64 bits

Two female 9 pin

"D" connectors.

one for each node

selected per node

-27 V/ +40 V (Fault tolerant)

-15 V/ + 15 V (Single wire)

0.01 S/s - 5 kS/s

See mainframe

datasheet

CAT I 100 V

CAN 2.0B

LIBERTY CAN/DI AMPLIFIER

CAN/bus Digital Input Card

CANbus Acquistion

Number of Nodes

Number of Channels 32 channels per node

Resolution

Input Connector

Sample Rate

System Aggregate

Isolation

Overload Protection -16 V/+32 V High speed)

CANbus

Protocol **Physical Layers**

High-speed (ISO 11898-2), Fault

tolerant (ISO 11898-3), Single wire (J2411) 33.3, 83.3, 100, 125,

Listen Only Mode Hardware controlled **Synchronization**

Data Bit Rates

Samples synchronized with other Liberty amps CAN configuration VectorDB file or user

250, 500 kbit/s, 1 Mbit/s

configuration

GPS Option

One CAN node is dedicated to an external GPS sensor that is powered by Liberty.

CAN Channel Triggering

Each channel has individual dual-level trigger detection; selectable hysteresis, modes and qualifiers.

Trigger Rate

Resolution

Pre- and Post-trigger o to full memory length Up to 1 trigger per second per channel up to 32 bit for each input

Digital Inputs

Number of Channels

32 in 2 groups of 16 Input Connector Female 44 pin "D" connector Input Range

TTL compatible. Maximum Input₃₂ V

Input Threshold Levels 2 V, 2.5 V, 3 V, 3.5 V, 4 V, 4.5 V, 5 V, 6 V, or 8 V

Half of threshold Hysteresis Overvoltage Protection ±100 V

Transient Protection CAT I 100 V Isolation **CAT I 100 V** Selectable **Signal Polarity**

Event Channels

Number Sample rate Up to 16 per group 0.01 S/s to 10 kS/s May be set separately for each group

Frequency/RPM/Counter/Quadrature Input

Number Resolution **Update Rate** 1 per group 48 bits Bandwidth MHz 0.01 S/s to 10 kS/s

Digital Input Triggering

Each event channel and counter channel can be used as a trigger.

Trigger Rate

Pre- and Post-trigger o to full memory length Up to 1 trigger per second per channel

Acquisition Modes

Sweep Mode

Dual Mode

For repetitive or intermittent phenomena

Continuous Mode

For continuous acquisition Combination

of sweeps and continuous

Power Requirements

Power of card

1.7 Watt per module

STATSTREAM® Analysis

Each CANbus input channel includes realtime extraction of Max. Min. and Mean values.

Each Event input channel includes real-time extraction of Max, Min, and Mean values

Ordering Information

CAN-DI module with one node 845-081700 CANbus and digital input module with one CAN node; must select one physical interface option.

CAN-DI module wtih two nodes 845-082800 CANbus and digital input module with two CAN nodes; must select two physical interface options.

Physical Interface options

High speed 845-082900 Single wire 845-083000 Fault tolerant 845-083100

GPS Interface option 845-083200

Liberty Mainframe

Refer to the separately available datasheet of the mainframe for details and options.





LDS Test and Measurement Ltd Heath Works, Baldock Road Royston, Herts, SG8 5BQ

Phone: +44 (o) 1763 255 255 E-Mail: info-uk@lds.spx.com

www.lds-group.com



LDS Test and Measurement 8551 Research Way, M/S 140 Middleton, WI 53562 USA

Phone: +1 (608) 821-6600 E-Mail: info-us@lds.spx.com



LDS Test and Measurement GmbH Carl-Zeiss-Ring 11-13 D-85737 Ismaning

Phone: +49 89 92 33 33 0 E-Mail: info-de@lds.spx.com



LDS Test and Measurement SARL 9 Avenue du Canada - BP 221 F-91942 Courtaboeuf

Phone: +33 (o) 1648 64545 E-Mail: info-fr@lds.spx.com



LDS Test and Measurement Room 2912, Jing Guang Centre Beijing, China 100020

Phone: +86 10 6597 4006 E-Mail: info-cn@lds.spx.com





