RUGGED CANBox
CAN Logger Rugged Enclosure with USB-over-Ethernet

APPLICATIONS

- Automotive safety
- Impact testing
- In-vehicle crash
- Sled applications
- Vehicle Interface

The Rugged CANBox is a complete solution that makes it easy to ruggedize the Intrepid Control Systems neoVI FIRE2 for high impact and crash testing applications.

The DTS Rugged CANBox enclosure is a turn-key solution that ruggedizes the Intrepid Control Systems neoVI FIRE2 Multi-Protocol Vehicle Network Interface system. The Rugged CANBox converts the neoVI FIRE2 into a crashworthy system ideal for both sled and in-vehicle crash installations. A plug-and-play interface allows for use of industry-standard communications protocols and electronics. The kit makes it easy for user's to install the CAN Logger into the rugged enclosure that also includes a USB-over-Ethernet connection which extends connectivity over greater distances than USB. All internal wiring harnesses are included to connect to the user-supplied CAN logger, plus detailed assembly instructions to ensure 100 g crash worthiness.

Features

- Simple, easy to use, plug-and-play
- Impact and crash environment hardening for the Intrepid Control Systems neoVI FIRE2 Multi-Protocol Vehicle Interface system
- Shock rated to 100 g
- USB-over-Ethernet conversion for faster, long-haul communications
- Ethernet interface compatible with SLICE PRO ECM
- Convenient CAN synchronization to SLICE PRO systems
- Easy access/visibility to status indicators and resets
- Crash-proven, rugged LEMO connectors

CAN Logger Compatibility

The DTS Rugged CANBox only supports the:

Intrepid Control Systems neoVI FIRE2 Multi-Protocol Vehicle Interface[1]   (User Supplied)
https://store.intrepidcs.com/neoVI-FIRE2-p/neovi-fire2.htm

PRODUCTS

Diversified Technical Systems designs and manufactures data acquisition systems and sensors for experienced test professionals.

www.dtsweb.com

Specifications

PHYSICAL	
Size:	30.2 x 30.2 x 7.4 cm (11.9" x 11.9" x 2.9")
Weight:	7.7 kg (17 lbs) – Fully Assembled
Enclosure Material:	Anodized Aluminum

ENVIRONMENTAL	
Operating Temp:	-20 to 60°C
Humidity:	95% RH non-condensing
Shock:	100 g operating
IP Rating:	IP67

POWER	
External:	12-36 VDC

SUPPORTED ELECTRONICS	
USB-to-Ethernet:	Silex DS-510 USB Device Server
DC/DC Converter:	Magnolian 12V-to-5V Buck Converter
CAN Logger:	Intrepid Control Systems neoVI FIRE2 Multi-Protocol Vehicle Interface[1]

Easy Enclosure Assembly Steps

1. Remove enclosure lid (14 screws)
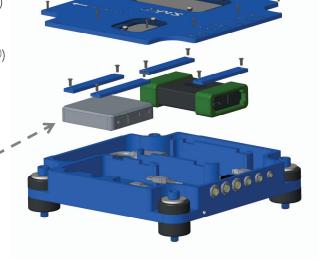2. Remove (2) CAN Logger brackets (2 screws ea.)
3. Install CAN Logger[1] into enclosure
4. Place cushion padding onto CAN Logger
5. Secure (2) CAN Logger brackets (2 screws ea.[2])
6. Connect CAN Logger cables
   HD-26 (rear)
   DB-9 (front)
   USB-b (front)
7. Install enclosure lid (14 screws[5])

USB-to-Ethernet conversion is provided via a Silex DS-510 USB Device Server (Included with the Rugged CANBox)

http://www.silexamerica.com/products/connectivity-solutions/device-networking/usb-parallel-connectivity/ds-510/

Available DTS Accessory Cables:

Connection	Cable	DTS Part Number
PWR	Cable, Power (PPS)	10600-00120
Ethernet	Cable, COM port daisy chain (RDC)	10700-0014x[4]
D OUT 1[3] D OUT 2[3]	Cable, SLICE PRO DIM (1B LEMO)	13000-30990
D IN 1, 2[3]	Cable, CAN Logger to SLED Coupler (1B LEMO)	10700-00680
CAN/LIN I/O[3]	Cable, CAN Logger external channels	10700-00071

(Cables Ordered Separately)
See "Recommended Connection Example" Diagram for additional system configuration details

(1) NOT INCLUDED
(2) 0.56Nm (5 in lbf)
(3) LEMO-to-pigtail cable. See DTS representative for termination connector information.
(4) Determined by length of cable
(5) 1.12 Nm (10 in lbf)

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