

DLX2

Vehicle Data Logger



The DLX2 Data Logger is a next generation, WiFi connected data acquisition and logging device designed for automotive and industrial testing. It combines multi-channel CAN-FD, LIN, RS-485, analog, digital, thermocouple, IMU, and GNSS (GPS) data acquisition into a compact, sealed, splashproof enclosure. DLX2 operates standalone or as an ECU interface to VISION Measurement and Calibration software and VDA Analysis software.

Connectivity Options

- Up to (5) CAN-FD channels
- LIN, ISO 9141 K-Line, RS485
- USB 2.0 High Speed
- Wi-Fi 802.11b/g/n, Bluetooth v4.2
- Expansion ports for additional capabilities

Built-in Measurements

- (4) -5 to +5V 16-bit differential analog inputs
- (4) 0 to 40V 16-bit analog inputs
- (4) K-type thermocouple inputs
- Sensor power supply output 3 to 15V
- 9-axis Inertial Measurement Unit (IMU)
- GNSS (GPS, GLONASS, Galileo, BeiDou) w/external antenna

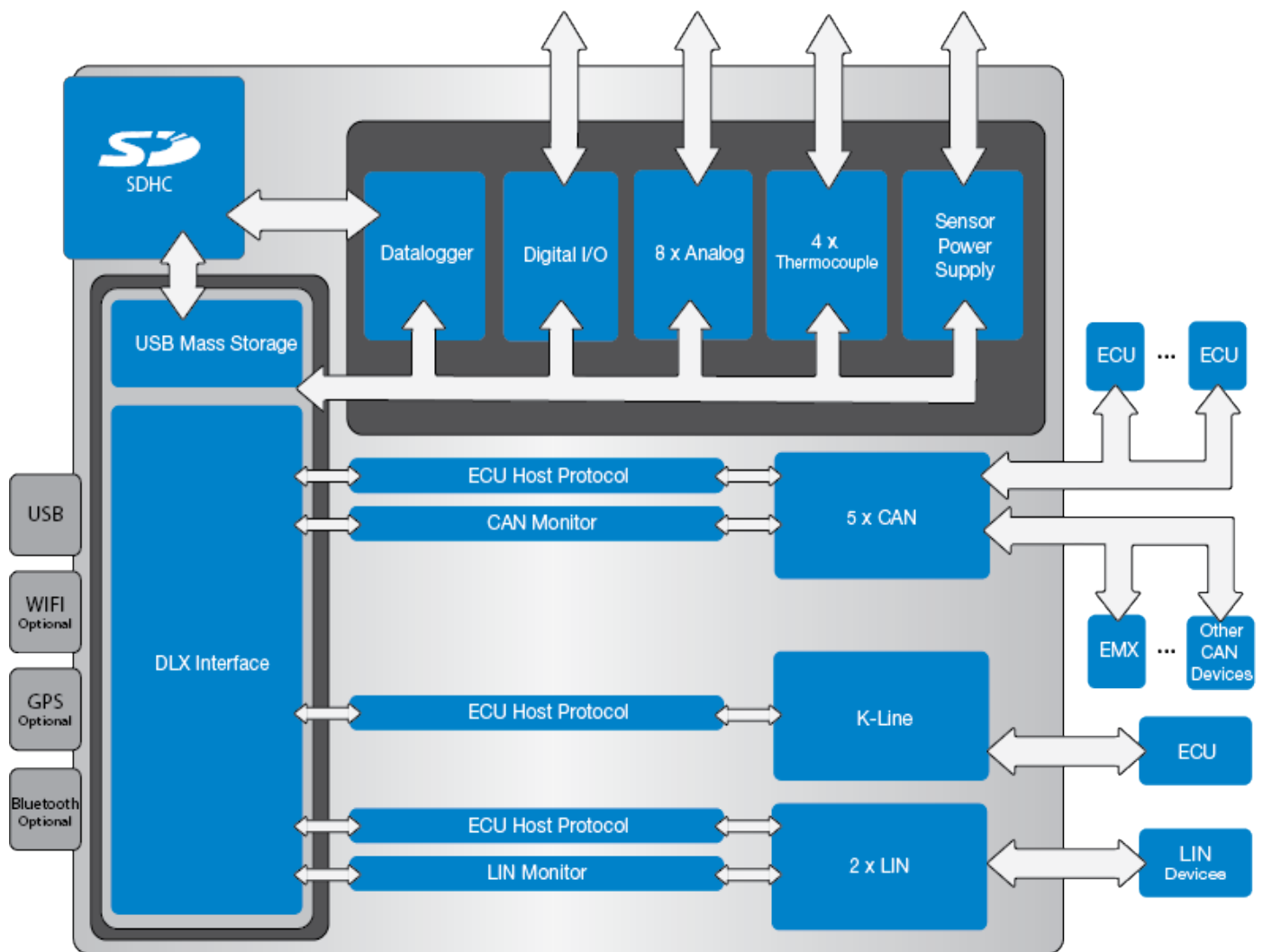
Compact Enclosure

- Robust lightweight sealed Polyamide enclosure
- LED status indicators
- Input power 5 to 36VDC



Data is saved directly in ASAM MDF4 format to a removable SDXC card and can be accessed via USB or wirelessly





VISION Data Analyzer (VDA) was specifically developed to support MDF4 files that can accommodate large data sets. View recordings and calibrations side by side at the same time in the analysis software boosting productivity.

The DLX2 Data Logger is easily configured using the free Base version of ATI's VISION Calibration and Data Acquisition software.



I/O Specifications

Sealed DB26HD-M (Analog Connector) 	(4) Bipolar Differential Analog Inputs Measurement Range: -5V to +5V ADC Resolution: 16 bits Max Data Rate: 2KHz per channel Input Impedance: 20MΩ Input Protection: $\pm 36V$ (4) Unipolar Single-ended Analog Inputs Measurement Range: 0V to 40V ADC Resolution: 16-bits Max Data Rate: 2KHz per channel Input Impedance: $\sim 1M\Omega$ Input Protection: $\pm 100V$ (4) K-type Thermocouple Measurement Inputs Measurement Range: -200°C to +1372°C / -328°F to 2501°F Max Data Rate: 10Hz per channel Input Protection: $\pm 36V$ Sensor Power Supply Output Adjustable voltage: 3 - 15VDC (500mW max load) Adjustment Step: 10mV Accuracy: $\pm 20mV$
Sealed DB15HD-M (Communication Connector) 	Power Supply Input 5 to 36VDC, automotive surge tolerant Up to 5 CAN-FD Channels CAN-FD (CAN 2.0B compatible) Supports CCP, XCP, OBD, UDS, ATI DAQ hardware and raw CAN message logging Up to 2 LIN Channels LIN Bus Data Logging Up to 1 ISO-9141 K-Line Channel Supports XCPonSxI, ISO14230, custom protocols Up to 1 RS-485 Channel Supports XCPonSxI, ISO14230, custom protocols Up to 4 Digital I/O Channels 0-36V Input, Logic Output, Open Drain Mode (500mA max), Disabled (Hi-Z)
Sealed USB-C (PC/Host Connector) 	USB Interface USB 2.0 High-Speed sealed Type-C connector USB Host Protocol Support Native VISION Calibration and Data Acquisition Software USB Mass Storage Device Windows DLL driver Published spec for device and logger configuration file
Expansion Connectors (2x sealed M5)	High Speed ATI Expansion Connector Power & Communications for single cable connection to expansion modules & ATI devices Low Speed ATI Expansion Connector Power & Communications for single cable connection to expansion modules & ATI devices

Wireless Specifications (Optional)

WiFi	
802.11b/g/n	
2.4 GHz, Integrated internal antenna	
Upload data to FTP Server, OneDrive or VISION Enterprise*	
Bluetooth	
Bluetooth v4.2	
2.4 GHz, Integrated internal antenna	
GNSS (GPS) Module	
Support for GPS, Galileo, GLONASS, BeiDou	
External SMA antenna connector for best satellite reception	

*Coming Soon

General Specifications

Inertial Measurement Unit	
Measurements	3-axis Accelerometer, 3-axis Gyroscope, 3-axis Compass
Update rate	100Hz

Memory Card	
Type	SDXC card, 2TB max size 16GB class 10 industrial grade card included
File Formats	FAT, FAT32, exFAT Long folder/file names supported with Macros
Data Format	Logs to ASAM MDF4 file format

Mechanical	
Operating Temperature	-40°C to +85°C / -40°F to +185°F
Enclosure	Black high performance Polyamide enclosure Sealed with IP65 rating User-removable SDXC memory card with sealed door
Dimensions	151.5mm x 65mm x 31mm 6 x 2.5 x 1.2in
Weight	~218g

Order Information

Product	
Part Numbers	Description
153-2001	DLX2 – CANx5, Wi-Fi & GPS
153-2101	DLX2 – CANx2, RS-485, Wi-Fi & GPS

Customer specific protocols are available. Please contact your local ATI Sales Representative for details.

Accessories		
Part Numbers	Description	
150-0260	.91m/3ft	Cable; USB-C cable for configuration and data retrieval
150-0272	.30m/1ft	Cable; DLX2 BOC HDB15 Banana x15 1FT
150-0273	1.83m/6ft	Cable; DLX2 BOC HDB15 to CAN.DB9x5; PWR AUX to Unterminated
150-0211-6FT	1.83m/6ft	DLX I/O Breakout; DB26 to Unterminated



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