

DLX Compact Datalogger

IP65

K-LINE



The DLX Datalogger offers a unique combination of functions that provide the features of a CAN interface, data acquisition module, and data logger all in one compact package. Communication channels include CAN and K-line that interface to ECUs or communicate with ATI data acquisition hardware.

MDF4

The DLX includes eight analog channels, one sensor power output, four thermocouple channels, and four digital input/output channels. This combination ensures that ECU and instrumentation data are properly correlated for easy analysis. The DLX brings a robust and cost effective data logging and calibration interface to small engine development, where the unit's compact packaging and IP65 splash-proof rating make it ideal for space constrained applications. The files recorded by the DLX are saved to the removable SDHC memory card in ASAM MDF4 file format. The DLX fully follows the MDF4 file format version 4.1 and as a result, does not require a utility to decipher data and additional recorder information. For easy access to the MDF4 logs, the DLX also functions as a USB card reader when not actively logging.



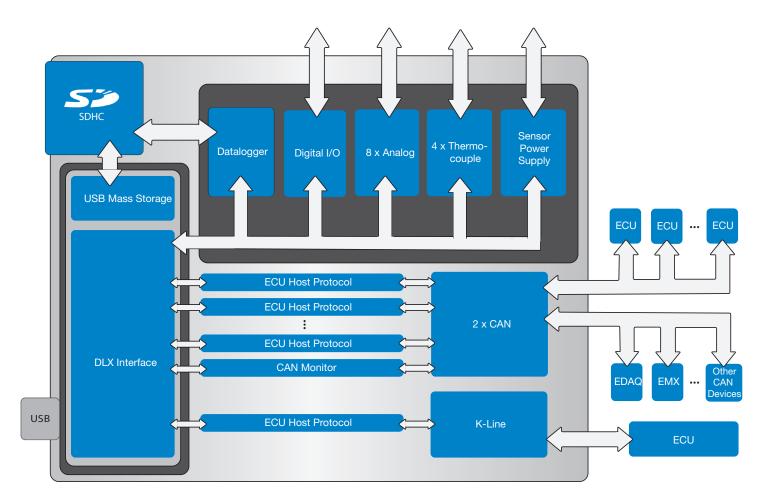
Data is stored on the DLX in ASAM MDF V4 files that can be easily accessed by using the USB port or removing the SDHC card.

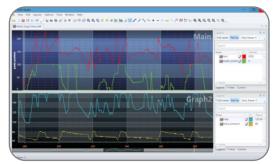


Features

- Four digital input/output channels
- Four +/-5 V differential analog inputs
- Four 0 to 20 V single-ended analog inputs
- Four K-type thermocouple input channels
- Two high speed CAN 2.0B
 channels
- One ISO 9141 compliant K-Line channel







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

The DLX Datalogger is easily configured using ATI VISION Calibration and Data Acquisition software.



DLX Datalogger I/O Specifications

+/-5 V Analog Inputs		
Number of channels	(4) bipolar differential inputs	
Input Range	±5V	
ADC Resolution	16-bits	
Max Sample Rate	2KHz per channel, fixed	
Input Impedance	20ΜΩ	
Input Protection	±36V	
0-20 V Analog Inputs		
Number of channels	(4) unipolar single-ended inputs	
Input Range	0 - 20V	
ADC Resolution	16-bits	
Max Sample Rate	2 KHz per channel, fixed	
Input Impedance	1.14ΜΩ	
Input Protection	±100V	
Thermocouple Inputs		
Number of channels	(4) K-type channels	
Measurement Range	-200°C to +1372°C / -328°F to 2501°F	
Max Sample Rate	10Hz per channel	
Input Protection	±36V	
Digital Input/Output		
Number of channels	(4) unipolar single-ended inputs/outputs	
Input Impedance	100ΚΩ	
Input Switching Thresholds	LVTTL	
Output States	Logic low, logic high, disabled (Hi-Z) or open drain (OD) on	
Output Drive Capability: Logic Low Logic High OD On Resistance OD Continuous Load Current OD Load Supply Voltage Leakage Current at H-Z	0.6Vmax at IOL= 0.1mA 2.7Vmin at IOH= -0.1mA 0.8Ωmax at 0.5A 0.5Amax 36Vmax ±3.5uA	
Min-Max Applied Voltage	-0.6 to 36V	
Sensor Power Output		
Number of Channels	(1) adjustable output 5 - 15V (500mW max load)	
Adjustment Step	10mV	
Accuracy	±20mV	



DLX Datalogger General Specifications

Configuration				
Application Interface	VISION Calibration and Data Acquisition Software			
Indicators				
Bi-color LEDs	(1) Power, (1) USB communication, (2) CAN communication, (1) K-Line communication, (1) Logger status			
Memory				
Storage Type	User-removable SDHC memory card with sealed cover 32GB class 10 industrial grade card included			
PC Communications				
USB	(1) USB 2.0 channel; supporting VISION and third party software via XCP			
Network Communications				
CAN	(2) CAN 2.0B channels			
K-Line	(1) ISO 9141 compliant K-Line channel			
Operating Conditions				
Connectors	To PC: USB Mini-B I/O Signal (INST): DB26HD-M Power and Data (COM): DB15HD-M			
Power Supply	5 to 36VDC			
Temperature Range	-40°C to +85°C / -40°F to +185°F			
Mechanical				
Construction	IP65 black high performance polyamide enclosure			
Dimensions	120 x 64.5 x 23.3mm / 4.7 x 2.5 x 0.9in			
Weight	145g / 5.1oz			

DLX Datalogger Order Information

Product		
Part Numbers	Description	
153-1100	DLX 1100 Series DataLogger	

Company specific variants are available. Please contact your local ATI Sales Representative for details.

Accessories			
Part Numbers	Description		
150-0210-6FT	1.83m/6ft	Cable; DLX PWR/Comm Breakout; DB15 to Unter- minated	
150-0211-6FT	1.83m/6ft	Cable; DLX I/O Breakout; DB26 to Unterminated	

ASAM





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