

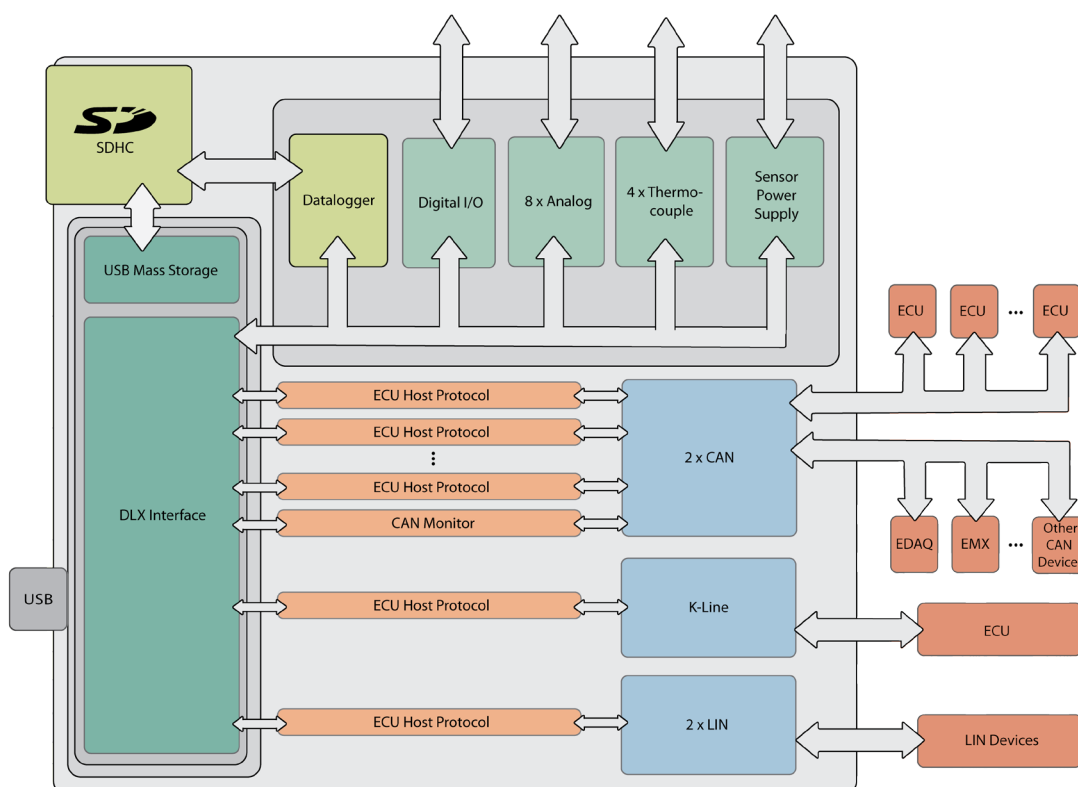
DLX Datalogger 1100 Series

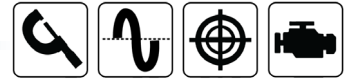
The DLX Datalogger offers a unique combination of functions that provide the features of a CAN interface, data acquisition module, and datalogger all in one compact package. Communication channels include CAN, K-line, and LIN that interface to ECUs or communicate with ATI data acquisition hardware.

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 small form factor and IP65 rating make the DLX ideal for space constrained applications. The DLX brings a robust and cost effective datalogging and calibration interface to small engine development.



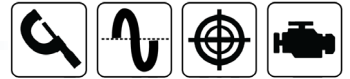
The DLX Datalogger is easily configured using ATI VISION Calibration and Data Acquisition software. The files are saved to the SDHC memory card in ASAM MDF V4 format. Data is stored on the DLX in PC readable files that can be easily accessed by using the USB port or removing the SDHC card.





DLX I/O Specifications

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



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) LIN communication, (1) Logger status
Memory	
Storage Type	User-removable SDHC memory card with sealed cover 16 GB 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
LIN	(2) Version 2.1 channels; supporting master and slave mode*
Operating Conditions	
Connectors	To PC: USB Mini-B I/O Signal (INST): DB26HD-M Power and Data (COM): DB15HD-M
Power Supply	5 to 36 VDC
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 23.3 mm / 4.7 x 2.5 x 0.9 in
Weight	145 g / 5.1 oz

*Under development

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.



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