Hydro Electronic Devices, Inc.

Technical Data Sheet

CANLink® CL-T00-1XX Module Family
Telematics Module

The CL-T00 is a solid-state microprocessor based module and member of the HED® CANLink® multiplexed control family. Delivered in a Deutsch enclosure, this unit provides a GSM Modem or Wi-Fi wireless interface.

Telematics allows for monitoring the location, movement, status and health of a vehicle or fleet of vehicles. The data is made available via a web-based management tool.

The CL-T00 is capable of up to 4GB of data storage, enabling it to also handle small or large data logging applications.

The HED® CL-T00 can be programmed using HED®'s do-it-yourself CANLink® Composer™ programming tool or directly by HED® engineering, and is designed for use with the CANLink® Conductor™ software tool for diagnostics and field troubleshooting.

Special Features include:

- Wi-Fi or GSM Modem wireless interface (only one can be selected)
  - Wi-Fi: Access data via wireless router
  - GSM Modem: Access data via internet website
- Internal SD Memory Chip
  - 128KB standard, with option up to 4GB
  - Soldered memory chip for resistance to high shock & vibration
- (3) J1939 CAN ports
  - 2 CAN ports standard with 3rd CAN port optional
- USB port (Host capable)
  - Download data to PC using HED Orchestra™ software
  - Download data to USB memory stick
- Real Time Clock with internal battery (15 year life - typical)
  - Allows for time-stamping of data and events logged
- 3-Axis Accelerometer for monitoring of acceleration, deceleration, angle
  - Allows for accident and roll-over detection
- Controlled Shutdown
  - Allows module to run after key switch is turned off so data can be logged to non-volatile memory. Module turns itself off. This feature has a 200uA to 400uA drain on system battery with key switch off.

Inputs available include:

- Factory configurable inputs available on 14 connector pins:
  - Up to 14 switch to battery inputs
  - Up to 2 switch to ground inputs
  - Up to 9 analog inputs (12-bit)
  - Up to 2 frequency inputs
  - 1 5VDC sensor supply
  - 1 5VDC sensor supply reference ground

Specifications	
Enclosure:	Deutsch standard EEC-325x4 PCB enclosure with 24-pin receptacle.
Mating Connectors: Deutsch	DTM06-12SA DTM06-12SB WM-12S (wedge) – Two needed (one per connector) 0462-201-20141 20AWG sockets 0413-204-2005 Sealing Plugs – Unused pins are required to be sealed to maintain module sealing
Operating Voltage:	8-32 VDC
Operating Temperature:	-40°C to 70°C
Storage Temperature:	-40°C to 85°C
IP Rating:	IP67
PC Boards:	The printed circuit boards are designed for high EMI/RFI protection. The boards are conformal coated with a silicone coating for further water/moisture protection. All inputs are protected against shorts to Battery(+) or Battery(-). 100% of the boards are functionally tested before shipment.

CANLINK®

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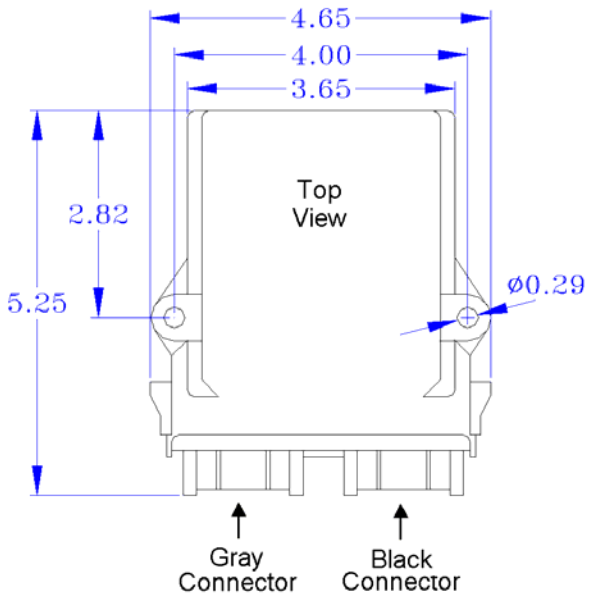
Specifications

CL-T00 Data Logger Module

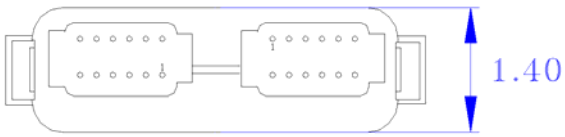
CL-T00 Data Logger Module Pinout

DTM13-12PA (Gray)		DTM13-12PB (Black)	
Pin	**Function**	**Pin**	**Function**
1	USB (DM)	1	Input STB or AIN or Unswitched Battery(+)**
2	USB (DP)	2	Input STB or AIN
3	USB (Gnd)	3	Input STB or AIN
4	USB (Power) or CAN Shield	4	Input STB or AIN
5	Input STB or AIN or CAN3-L	5	Input STB or AIN
6	Input STB or AIN or CAN3-H or Unswitched Battery(+)**	6	Input STB or STG or AIN or FREQ
7	CAN2-L	7	Input STB or STG or AIN or FREQ
8	CAN2-H	8	Input STB or AIN
9	CAN1-L	9	Input STB or AIN
10	CAN1-H	10	Input STB or AIN
11	BAT(-) Module	11	Input STB or AIN or 5VDC Sensor Supply Ground
12	BAT(+) Module	12	Input STB or AIN or 5VDC Sensor Supply Ground



Note: Different I/O combinations are available. Please refer to specific CL-T00-1XX data sheet for I/O number designations for use within Composer™. Data sheets available on HED® website.

**Unswitched vehicle battery must be connected to properly store data to EEPROM when module is configured as a master module. Module will draw max of 200 micro amps (12V) and 400 micro amps (24V) after turning itself off. This feature is only available on versions of this module that are Master Module capable.



Front View

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