

CANLink[®] CL-103-101 Module Master Control Module



Special Features include:

- (3) J1939 CAN ports
- (1) RS232 port
- (1) USB port
- (2) switch to ground inputs
- (1) 0.5A PWM output
- Battery voltage monitoring

The CL-103 is a solid-state microprocessor based module and member of the HED[®] CANLink[®] multiplexed control family. Delivered in a Deutsch enclosure, this unit provides powerful functionality in a compact and economical package.

Designed as a master control module, the CL-103 includes 4 different communications ports (7 Total). Three J1939 and one J1708 CAN ports enable the module to perform a dual role as a master controller and communications bridge between multiple CAN systems on one vehicle.

The HED[®] CL-103 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.

Specifications

Enclosure:	Deutsch standard EEC-325x4 PCB enclosure with 24-pin receptacle.
Connectors:	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 Range:	8 to 32 VDC
Operating Temperature:	-40°C to 70°C
Storage Temperature:	-40°C to 85°C
IP Rating:	IP 6K9K
PC Boards:	The printed circuit boards 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. * Harness codes are switch to ground inputs used to identify I/O module location and function to the master controller

CL-103-101 Control Module

CL-103-101 Control Module Pinout

DTM13-12PA (Gray)		DTM13-12PB (Black)	
Pin	Function	Pin	Function
1	Unused	1	Input #4 Unswitched BAT(+)**
2	USB (DP)	2	Output #1 DOUT(+)/PWM(+)(0.5A)
3	USB (DM)	3	CAN (Shield)
4	USB/RS232 (GND)	4	Unused
5	RS232-1 (Tx)	5	Unused
6	RS232-1 (Rx)	6	Unused
7	CAN2-L	7	Unused
8	CAN2-H	8	Unused
9	CAN1-L	9	CAN3-L
10	CAN1-H	10	CAN3-H
11	BAT(-) Module	11	Input #1 STG
12	BAT(+) Module / Input #3 Battery Voltage	12	Input #2 STG

Note: Above pinout is for HED® part number CL-103-101.
Additional part number data sheets available on HED® website.

**Unswitched vehicle battery must be connected to properly store data to EEPROM.
Module will draw max of 200 micro amps (12V) and 400 micro amps (24V) after turning itself off.

