



Representative Product Photo

## CANLink® CL-104-103 Module Master Control Module

### Special Features include:

- (2) J1939 CAN ports
- (1) RS232 ports
- (1) USB port
- Battery voltage monitoring

The CL-104 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-104 includes 3 different communications ports (4 Total). Two J1939 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-104 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 WM-12S (wedge) 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 67
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-104-103 Master Control Module

### CL-104-103 Master Control Module Pinout

DTM13-12PA (Gray)	
Pin	Function
1	USB (DM)
2	USB (DP)
3	USB / RS232 (GND)
4	RS232 (Tx)
5	RS232 (Rx)
6	Unswitched Battery(+)** / Input #1 Battery Voltage
7	CAN2-L
8	CAN2-H
9	CAN1-L
10	CAN1-H
11	BAT(-) Module
12	BAT(+) Module / Input #2 Battery Voltage

Note: Above pinout is for HED® part number CL-104-103.  
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.

