



Representative Product Photo

The CL-442 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 high density I/O count in a compact and economical package.

Designed for use as a stand alone unit or as part of a distributed system, the CL-442 is also available in a clear enclosure with LED indicators for each input for simple troubleshooting in the field.

The HED® CL-442 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.

## CANLink® CL-442-140-XX I/O Module

**CL-442-140-10 : Master I/O**

**CL-442-140-20 : Client I/O – Not yet available**

**Up to 18 Inputs and 4 Outputs (18 total I/O pins):**

- (5) Switch to Battery digital inputs
- (9) 0-5.5VDC 10-bit analog inputs
- (4) pins software configurable as PWM outputs with estimated current feedback (up to 3A), or switch to battery or switch to ground input
- (1) 5V Regulated Sensor Supply (250mA)
- (1) J1939 CAN port

### 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 Range:	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 and outputs 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-442-140-XX I/O Module

DTM13-12PA (Gray)		DTM13-12PB (Black)	
Pin	Function	Pin	Function
1	Input #1 STB	1	Input #18 STB/STG/ Output #1 DOUT/PWM/ECC(+)(3A)
2	Input #2 STB	2	Input #19 STB/STG/ Output #2 DOUT/PWM/ECC(+)(3A)
3	Input #3 VTD(0-5.5V)	3	Input #20 STB/STG/ Output #3 DOUT/PWM/ECC(+)(3A)
4	Input #4 VTD(0-5.5V)	4	Input #21 STB/STG/ Output #4 DOUT/PWM/ECC(+)(3A)
5	Input #5 VTD(0-5.5V)	5	5V Sensor Supply (250mA) Input #16 Supply Voltage
6	Input #6 VTD(0-5.5V)	6	Sensor Supply Ground Input #15 Ground voltage
7	Input #7 VTD(0-5.5V)	7	Input #9 AIN(0-5.5V)
8	Input #8 VTD(0-5.5V)	8	Input #10 AIN(0-5.5V)
9	CAN1-L	9	Input #11 AIN(0-5.5V)
10	CAN1-H	10	Input #12 STB
11	BAT(-) Module	11	Input #13 STB
12	BAT(+) Module and Outputs 1-4 Input #17 Battery Voltage	12	Input #14 STB

Note: Above pinout is for HED® part number CL-442-140.  
Additional part number data sheets available on HED® website.

