



Representative Product Photo

## CANLink® CL-418-1XX Module Family Master or I/O Module (12V only module)

### 12 to 15 Inputs and 11 to 14 Outputs including:

- (8) switch to battery inputs
- (2) 0-5.5V 10-bit analog inputs
- (2) inputs configurable as switch to ground or frequency
- (3) pins hardware configurable as switch to ground inputs or 500mA sinking PWM outputs
- (4) 8A Digital outputs with current limiting
- (6) 8A PWM outputs with current limiting
- (1) 15A PWM output with current limiting
- Battery voltage and sensor supply voltage monitoring
- (1) 5VDC regulated sensor supply (50mA)
- (1) J1939 CAN ports
- (1) USB port

The CL-418 is a solid-state microprocessor based module and member of the HED® CANLink® multiplexed control family. Delivered in an aluminum enclosure, this unit provides a large and highly flexible I/O count in a compact package.

The CL-418 is designed for use as a multi-purpose stand alone unit or as a master controller in a distributed system.

The HED® CL-418 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.

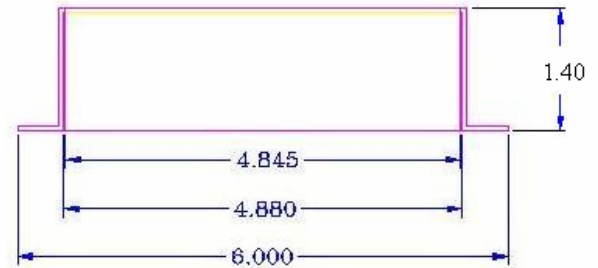
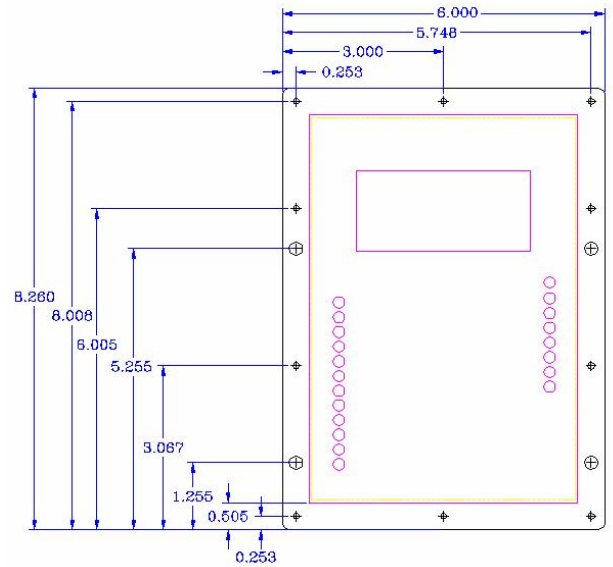
### Specifications

Enclosure:	Aluminum Extrusion
Mating Connectors: Deutsch	Deutsch DRC16-40SA 0462-201-20141 20AWG sockets 0462-201-16141 16AWG sockets
Operating Voltage Range:	8 to 18 VDC No 24VDC version available for this module
Operating Temperature:	-40°C to 85°C
Storage Temperature:	-40°C to 85°C
IP Rating:	IP 67
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-418 Master or I/O Module

### CL-418 Master or I/O Module Pinout

DRC13-40PA 40-Pin Connector			
Pin	Function	Pin	Function
1	Output DOUT(+)/PWM(+)(8A)	21	Input STB
2	BAT(+) Module and Outputs 1-2 / Input #16 Battery Voltage	22	Input STB
3	Output DOUT(+)/PWM(+)(8A)	23	Input STB
4	Input #1 STG/FREQ	24	5V Sensor Supply (50mA) / Input Sensor Supply Voltage
5	Output DOUT(+)/PWM(+)(8A)	25	USB (GND)
6	BAT(+) Outputs 3-4	26	USB (DM)
7	Output DOUT(+)/PWM(+)(8A)	27	USB (DP)
8	BAT(+) Output 5	28	CAN1-L
9	Output DOUT(+)/PWM(+)(15A)	29	CAN1-H
10	Input STG or Output DOUT(-)/PWM(-)(0.5A)	30	Input STG or Output DOUT(-)/PWM(-)(0.5A)
11	BAT(-) Module	31	BAT(+) Outputs 6-7
12	Input STG/FREQ	32	Output DOUT(+)/PWM(+)(8A)
13	Input AIN(0-5.5V)	33	Output DOUT(+)(8A)
14	Input AIN(0-5.5V)	34	Output DOUT(+)(8A)
15	Input STB	35	BAT(+) Outputs 8-9
16	Input STB	36	Output DOUT(+)(8A)
17	Input STB	37	BAT(+) Outputs 10-11
18	Input STB	38	Output DOUT(+)(8A)
19	Input STB	39	Output DOUT(+)/PWM(+)(8A)
20	Input STG or Output DOUT(-)/PWM(-)(0.5A)	40	Flyback Ground**



Note: Different I/O combinations are available. Please refer to specific CL-418-1XX data sheet for I/O number designations for use within Composer™. Data sheets available on HED® website.

\*\*Flyback Ground is required to be connected to system Battery(-) for proper suppression of PWM output flyback voltage spikes.