

CANLink[®] CL-420-101 Module I/O Module

13 Inputs and 10 Outputs including:

- (3) inputs software configurable as switch-to-ground, 12-bit analog, or resistive sensor input (RTD)
- (3) inputs software configurable as switch to ground or 12-bit analog
- (4) switch to battery inputs
- (2) inputs software configurable as switch to ground or frequency
- (1) 10-bit analog
- (4) harness code* inputs
- (8) 3A PWM outputs with estimated current feedback
- (2) 3A PWM outputs
- Battery voltage and sensor supply voltage monitoring
- (1) 5VDC regulated sensor supply (700mA)
- (2) J1939 CAN ports
- (1) RS232 port



The CL-420 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-420 is designed for use as a multi-purpose stand alone unit or as a master controller in a distributed system.

The HED[®] CL-420 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.

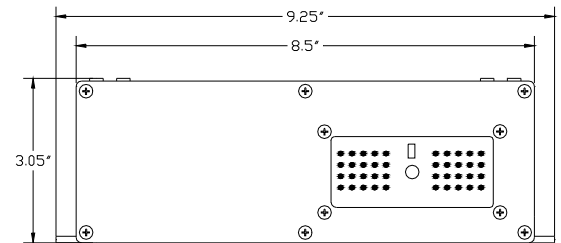
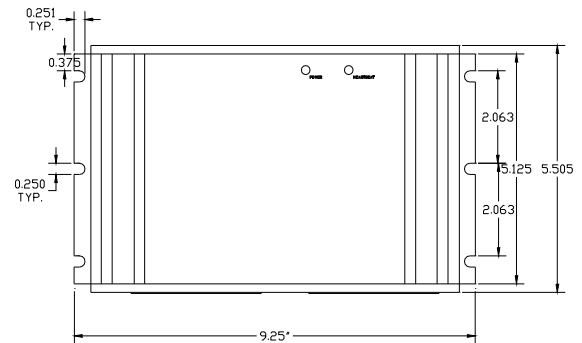
Specifications

Enclosure:	Aluminum Extrusion
Mating Connectors: Deutsch	Deutsch DRC16-40SA 0462-201-20141 20AWG sockets 0462-201-16141 16AWG sockets
Operating Voltage Range:	8 to 32 VDC
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-420-101 I/O Module

CL-420-101 I/O Module Pinout

DRC13-40PA 40-Pin Connector			
Pin	Function	Pin	Function
1	Output #1 DOUT(+)/PWM(+)/ECC(+)(3A)	21	BAT(-) Module
2	Output #2 DOUT(+)/PWM(+)/ECC(+)(3A)	22	Input #8 STG/Freq
3	Output #3 DOUT(+)/PWM(+)/ECC(+)(3A)	23	Input #9 STG/Freq
4	Output #4 DOUT(+)/PWM(+)/ECC(+)(3A)	24	HID #1
5	Output #5 DOUT(+)/PWM(+)/ECC(+)(3A)	25	HID #2
6	Output #6 DOUT(+)/PWM(+)/ECC(+)(3A)	26	HID #3
7	Output #7 DOUT(+)/PWM(+)/ECC(+)(3A)	27	HID #4
8	Output #8 DOUT(+)/PWM(+)/ECC(+)(3A)	28	Input #10 STG/AIN
9	Output #9 DOUT(+)/PWM(+)(3A)	29	Input #11 STG/AIN
10	Output #10 DOUT(+)/PWM(+)(3A)	30	Input #12 STG/AIN
11	Input #1 STB	31	RS232 (GND)
12	Input #2 STB	32	RS232 (TX)
13	Input #3 STB	33	RS232 (RX)
14	Input #4 STB	34	5V Sensor Supply #1 (700mA) / Input #16 Sensor Supply Voltage
15	BAT(+) Module and Outputs 1-5 / Input #14 Battery Voltage	35	Input #13 AIN
16	Flyback Ground	36	CAN1-L
17	Input #5 STG/AIN/ RTD(0-255ohm)	37	CAN1-H
18	Input #6 STG/AIN/ RTD(0-255ohm)	38	CAN (Shield)
19	Input #7 STG/AIN/ RTD(0-255ohm)	39	CAN2-L
20	BAT(+) Outputs 6-10 and 5V Supply / Input #15 Battery Voltage	40	CAN2-H



Note: Above pinout is for HED[®] part number CL-420-101.
Additional part number data sheets available on HED[®] website.