



PRESS RELEASE

New I/O Dense, Flexible General Purpose Controllers

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FOR IMMEDIATE RELEASE

(Hartford, WI) – HED, Inc., the experts in controlled area network (CAN) technology recently added three new general purpose programmable electronic controllers in the same compact housing, expanding the range of standard CANLink® products to 33 modules of various I/O configurations and features.

I/O Density

The new modules, designated CL-413, CL-420, and CL-421, feature a high number of inputs and outputs (up to 63 in the case of the CL-413) as well as two CAN ports. The controllers are capable of operating as either stand alone modules or master controllers.

“We recognize that not all electronic control applications will be distributed systems,” stated Joseph P. Maher, Sales & Marketing Manager for HED, “These modules are designed to have all the I/O required to act as single board controllers, but with the added capability to be master controllers in a multiplexed system. This way our customers have tremendous flexibility for future expansion.”

Flexibility of Configurable I/O

The flexibility does not end there, as each module can be configured to the precise combination of input and output types the application may require. “The built-in flexibility including both software and hardware configurability of the I/O assures broad applicability over a tremendous range of applications and vehicle types,” indicated John Kitzerow, Business & Product Manager for HED.

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The new modules include:

Module	I/O Description
CL-413	<p>39 Inputs, 22 or 24 Outputs</p> <ul style="list-style-type: none"> • (12) switch-to-battery inputs • (5) Inputs configurable as switch-to-ground or 12-bit analog • (3) Inputs configurable as switch-to-ground, 12-bit analog, or RTD • (4) Inputs configurable as switch-to-ground or frequency¹ • (2) Inputs configurable as 10-bit analog or comm. port shield • (4) Switch-to-battery inputs • (1) 10-bit analog input • (4) Inputs configurable as switch-to-ground or 12-bit analog • (4) Inputs configurable as switch-to-ground, 12-bit analog or harness code² • (2) J-1939 CAN Ports <ul style="list-style-type: none"> • (4) 3 amp sourcing outputs configurable as digital or 16-bit PWM³ ▪ (4) 3 amp sourcing outputs configurable as digital or 16-bit constant current PWM ▪ (6) 3A sourcing outputs configurable as 8 or 16-bit PWM, or digital ▪ (8) or (10) 3A sourcing outputs configurable as 8 or 16-bit PWM, digital, or servo
CL-420	<p>19 Inputs, 10 Outputs</p> <ul style="list-style-type: none"> • (5) inputs configurable as switch-to-ground or 12-bit analog • (3) input configurable as switch-to-ground, 12-bit analog, or RTD • (2) inputs configurable as 10-bit analog or comm. port shield • (4) switch-to-battery inputs • (1) 10-bit analog • (4) inputs configurable as switch-to-ground, frequency or harness code • (2) J-1939 CAN ports • (1) RS232 port <ul style="list-style-type: none"> • (4) 3A sourcing outputs configurable as digital or 16-bit PWM • (6) 3A sourcing outputs configurable as 8 or 16-bit PWM, or digital
CL-421	<p>18 Inputs, 12 or 14 Outputs</p> <ul style="list-style-type: none"> • (12) switch-to-battery inputs • (4) inputs configurable as switch-to-ground or 12-bit analog • (4) inputs configurable as switch-to-ground, 12-bit analog, or harness code • (1) J-1939 CAN port <ul style="list-style-type: none"> • (4) 3A sourcing outputs configurable as digital or 16-bit PWM • (8) or (10) 3A sourcing outputs configurable as 8 or 16-bit PWM, digital, or servo <ul style="list-style-type: none"> • (1) 5VDC regulated power supply (250mA)

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HED in brief:

HED is a leading supplier of state-of-the-art electronic control and multiplex technology for on-highway and off-highway mobile vehicle applications. From stand-alone products to integrated vehicle control systems, HED offers both standard products and completely custom solutions, including a range of over 30 unique control modules in the CANLink family.

Programmable either by HED or the customer, CANLink® modules are designed for use with do-it-yourself software tools including CANLink® Composer™ for programming stand alone modules or full multiplex systems, CANLink® Conductor for diagnosing programming logic and troubleshooting vehicle systems in the field, and CANLink® Tuner™ for fine tuning input device signal ranges either at the end of the production line or to calibrate field replacements.

The HED headquarters for product design, manufacturing, sales and service is located in Hartford, Wisconsin USA and is ISO 9001-2000 certified.

Contact HED for a free copy of the new brochure on the expanded CANLink® family.

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