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PRESS RELEASE

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New Pi Innovo M670 ECU cuts development costs and provides ideal niche production platform

Next week's Engine Expo 2015 at Messe Stuttgart on June 16 will see the launch of Pi Innovo's innovative new M670 rapid prototyping engine control unit (ECU). The unit is a significant step forward, allowing customization of production level hardware accelerating speed to market for mainstream automotive development – while also providing a robust platform for niche volume production projects from specialty vehicles to large engines and off-highway equipment.

The latest in Pi Innovo's OpenECU® family of rapid prototyping ECUs, the M670 breaks new ground in functionality, robustness, customization and performance, providing an ideal architecture for OEMs to develop the next generation of advanced engines and vehicles.

"We have designed the new M670 with the customer firmly in mind," explains Pi Innovo CEO Walter Lucking. "This product builds upon and extends our well-proven OpenECU architecture of modular, reusable ECU rapid prototyping technology; it is implemented to production standards and 'open' to custom configuration, adaptation and application-specific development. We believe that it represents perhaps one of the most cost-effective and versatile single box platforms available for the development of the next generation of ultra-fuel efficient and low emissions diesel, gasoline, and alternative fuel engines."

The new Pi Innovo M670 provides extreme power as well as versatility. In its standard configuration with its advanced Freescale microprocessor, it supports engines of up to eight cylinders and provides 120w of internal boost power for fuel injectors, accommodating multiple overlapping injections per stroke. A total of 96 of 154 I/O circuits can be modified to meet specific vehicle application requirements and the unit's smart software is fully adjustable to control a wide range of injectors for maximum flexibility.

An integrated tool-chain

The new M670 forms part of an integrated tool-chain from concept to production. As with all Pi Innovo OpenECU products, it provides a mature and truly open application-independent Simulink® development environment to streamline the development process for production ECU code. Customers are therefore able to progress more quickly to a production solution, saving product development time and cost.

It can be used with a wide range of industry-standard calibration tools including ATI Vision, ETAS INCA, dSPACE Control Desk and Vector CANape via CCP – as well as Pi Innovo's own calibration tool, Pi Snoop.

Robustness and flexibility

Like all members of the OpenECU product family, the M670 has been engineered for flexibility and robustness, suitable for use in the under-hood environment. This robustness together with its large amount of customizable I/O enables the M670 to be reused across successive vehicle product development projects, saving considerable cost in prototype hardware. Similarly, for niche or low volume (<10,000) vehicle applications, it can be customized for production use as an alternative to more costly bespoke ECU development.

"The M670 fits seamlessly into the toolchain for ECU development from concept to production," continues Lucking. "Customers wishing to use this in their own development projects will find it integrates well with a wide range of industry leading development and calibration tools, as well as those available from Pi Innovo. For those requiring a truly off-the-shelf solution or requiring additional calibration support, we can offer a comprehensive development service alongside hardware supply. For low volume applications, the new M670 product offers a unique capability to be customized and adapted for production use. Given its extensive customizable I/O, we believe there will be many applications where the functions of multiple electronics boxes will be combined into one M670."

Ends

Picture available for download with this release: ***"The New Pi Innovo M670 ECCU cuts development costs and provides an ideal niche production platform"***

Notes to editors

Pi Innovo is a world leader in the development and manufacture of electronics for the automotive, transportation, military and industrial markets. Using its OpenECU® platform, the same proven, robust, reliable and reusable ECU hardware can be applied in successive rapid prototyping development projects and fleet trials, or in niche production vehicles. Because all OpenECU modules are designed and manufactured by Pi Innovo, the company can meet individual customer's needs by creating custom variants from prototyping to production applications. For more information visit: www.pi-innovo.com/.

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