Time Domain Announces Release of PulsON 440 OEM Module

*High-Performance Ultra Wideband Ranging and Radar Sensor Ready for Worldwide Adoption*

Huntsville, Alabama (PRWEB) August 18, 2015 -- Time Domain, the leading innovator in ultra wideband (UWB) product development, today announced the PulsON® 440 (P440) UWB module, the latest generation of its high-performance P400 series of UWB ranging, radar, and communications modules. The P440 module features a new proprietary UWB silicon chip and offers product integrators significant benefits, including reduced size, better power consumption, and expanded interface capability.

“The release of the P440 comes at a critical time for our user community,” said Rachel Reinhardt, President and CEO of Time Domain. “Our industrial customers have already proven that PulsON UWB technology reliably provides exceptional performance in the most challenging environments. This new radio will enable them to deploy on a massive scale.”

The centerpiece of the P440 module is the company’s new Fully Integrated Front End (FIFE) custom UWB chip, a landmark technological achievement which combines the company’s two previous custom SiGe chips (Pulser and Analog Front End) into a single chip that is smaller and more power efficient than either of its predecessors. The resulting FIFE-based P440 module is the approximate size of a credit card (56 mm x 89 mm), offers multiple interface options (USB, Ethernet, serial, SPI, and CAN), and consumes less than half the power of the prior generation P410 and P412 platforms.

The new modules will use Time Domain’s existing suite of ranging/localization and radar/sensing software. In ranging mode, the P440 provides peer-to-peer distance measurements at better than 2 centimeters accuracy over a range of several hundred meters, with high update rates and in high multipath environments. Network and location layer software and sample code are provided to help users quickly implement their own custom navigation and tracking applications. In radar mode, the P440 can function as a monostatic or multistatic short-range radar sensor, capable of providing the distance measurement and reflection amplitude of a variety of targets within its scan range, and suitable for indoor or outdoor (all-weather) use.

The needs of Time Domain’s industrial customer base factored heavily in the design of the new platform. The P440 was designed to operate over the full industrial temperature range (-40°C to +85°C) and withstand the rigors of high shock and high vibration environments. It has immediate application for:

- Indoor and GPS-denied navigation and mapping (e.g., autonomous vehicles and robots)
- Augmentation of GPS and inertial tracking systems in high multipath environments
- Precision distance measurement for machine controls and guidance
- Proximity and intrusion detection
- Non-cooperative (tagless) tracking
- Collision avoidance for unmanned vehicles and robots

The P440 will be available in 2 versions to meet both the U.S. Federal Communications Commission (FCC) and the EU European Telecommunications Standards Institute (ETSI) regulations for UWB transmission.

The P440 is over-the-air compatible with its predecessors in the P400 series (P400, P410, and P412). The P440 modules and Development Kits are now available for pre-order, with initial customer shipments planned for
September 2015. For more information on Time Domain and its UWB product offerings, please visit www.timedomain.com or call +1.256.922.9229.
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