



DecaWave Launches DWM1000 Module for Precise Indoor Location and Communication

Developed in partnership with LG Innotek and based on the DW1000 chip, the DWM1000 aims at reducing the design cycle time and accelerating the time to market of RTLS solutions

June 30th, 2014—DUBLIN, IRELAND—Fabless semiconductor company, DecaWave, announces today its first module, DWM1000, based on the industry's most precise indoor location and communication CMOS chip, the DW1000.

The new DWM1000 module will allow a broader audience access to DecaWave's DW1000 and technology, which makes indoor location and communications more accurate, cost-effective and power-efficient than ever before. Customers can now simply and quickly integrate the technology as a plug and play solution, reducing the cost of development and the risks associated with radio frequency (RF) design.

The DWM1000 integrates everything necessary for RF design. The DW1000 chip, antenna, balun, crystal and passive components are all fitted on a 23 mm x 13 mm x 2.9 mm 24-pin side-castellation package.

This level of integration has been made possible thanks to the close collaboration between DecaWave and LG Innotek, the world leader in module and sub-system manufacturing. This makes the use of the DWM1000 possible even in the most size-constrained applications like portable equipment.

The DWM1000 is an IEEE802.15.4-2011 UWB compliant wireless transceiver module. Based on DecaWave's DW1000 IC it allows the location of objects in real time location systems (RTLS) to a precision of 10 cm. It is capable of high data rate communications, up to 6.8 Mb/s, and it is also a perfect fit in wireless sensor network (WSN) applications. Based on an excellent communications range of up to 290 m in Line of Sight and up to 35m in Non-Line of Sight, it also reduces the system cost and the need for additional infrastructure.

From quick prototyping to low/mid volumes applications, the DWM1000 is a perfect fit for who wants to integrate the most advanced positioning technology.

The DWM1000 is available at Digikey or Semiconductorestore.com from \$30 for smaller quantities or \$15 for quantities of 5,000 to 10,000 parts.

About DecaWave

DecaWave is a pioneering fabless semiconductor company developing a family of integrated circuit products called ScenSor, compliant to the IEEE802.15.4a standard, which can electrically identify the specific location of any object, person or thing in an indoor environment at very competitive cost, ultra-low power and with a required level of precision never achieved before +/-10cm.

With applications in diverse markets including factory and building automation, agriculture, healthcare, ePOS and retail, and warehousing, the company's flagship DW1000 chip has garnered interest from more than 1,800 firms, research centers and individuals. DecaWave is headquartered in Dublin Ireland, with offices in France, South Korea, Taiwan and the US. <http://www.decawave.com/>

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