

New Product Announcement

Mouser Electronics Now Stocking Panasonic PAN1780 High-Performance Bluetooth 5 Low Energy Module

June 16, 2020 – [Mouser Electronics](https://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [PAN1780](#) module from [Panasonic](#). The ultra-low-power *Bluetooth*® Low Energy 5.0 module enables the transmission of large amounts of data in connectionless environments, providing a compact solution for [Internet of Things](#) (IoT), beacon, and mesh network applications.

The [Panasonic PAN1780](#) module, available from Mouser Electronics, is based on the [Nordic nRF52840](#) single-chip controller, which provides an Arm® Cortex®-M4F processor core with 1 Mbyte of embedded flash memory and 256 Kbytes of internal RAM. The robust Nordic SoC allows engineers to use the module in standalone mode, which eliminates the need for an external processor, reduces cost, and frees board space. The module also features an Arm TrustZone® CryptoCell 310 security core that supports a secure boot process and makes it a fitting solution for edge computing applications.

The PAN1780 module's Bluetooth 5.0 features enable a high symbol rate of 2 Mbits per second (Mbps) using the high-speed LE 2M PHY or a significantly longer range using the LE coded PHY at either 500 Kbits per second (Kbps) or 125 Kbps. A high output power of up to +8 dBm and the excellent sensitivity of the nRF52840 (-103 dBm at 125 Kbps) in combination with the LE coded PHY make the module ideal for applications that require long-range communication. In addition to Bluetooth Low Energy with qualified Bluetooth mesh profile stack, the module supports 802.15.4 (Thread and Zigbee) and NFC-A.

The compact 15.6 mm × 8.7 mm × 2.0 mm module offers the same form factor as PAN1026A and PAN1762 modules, but features smaller pitch and more pins. The PAN1780 module provides a space-effective solution for smart city infrastructure, industrial [mesh](#) networks, Industry 4.0 robotics, and smart medical applications.

To learn more, visit <https://www.mouser.com/new/panasonic/panasonic-pan1780-bluetooth5-le-module/>.

As an authorized distributor, Mouser Electronics is focused on the rapid introduction of new products and technologies, giving customers an edge and helping speed time to market. Over 800 semiconductor and electronic component manufacturers count on Mouser to help them introduce their products into the global marketplace. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each manufacturer.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 800 manufacturers. Mouser offers 27 support locations around the world to provide best-in-class customer service and ships globally to over 630,000 customers in 223 countries/territories from its 1 million sq. ft. state-of-the-art facilities south of Dallas, Texas. For more information, visit www.mouser.com.

About Panasonic Industrial Devices

Panasonic Industrial Devices Sales Company of America is the advanced industrial components and electronic devices sales division of Panasonic Corporation of North America, the principal North American subsidiary of Panasonic Corporation. The company provides cutting-edge components that power a diverse range of wireless and mechanical devices. Standard and custom components range from industrial automation devices to passive components, relays, connectors, sensors, wireless connectivity, semiconductors and more.

Thriving as an innovator of consumer electronics, home appliances, communications, automotive and healthcare, Panasonic is continuously developing and improving cutting-edge, high-quality, high-technology components that power a diverse range of devices and products. The company is also pursuing advanced environmental initiatives to encourage the growth of environmental awareness and sustainability worldwide.

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