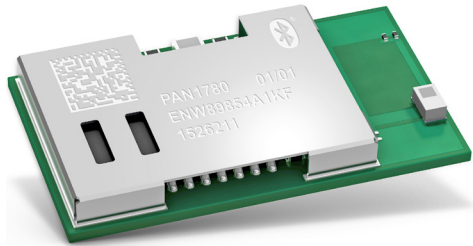


# PAN1780

## Bluetooth® 5.0 Low Energy Module

**Panasonic**  
INDUSTRY



### High Performance and Long Range

The PAN1780 is a Bluetooth® 5.0 Low Energy Module based on the Nordic nRF52840 single-chip controller. The Bluetooth® 5.0 features enable a higher symbol rate of 2 Mbps using the high-speed LE 2M PHY. Furthermore, the new LE advertising extensions allow for much larger amounts of data to be broadcasted in connectionless scenarios. Besides BLE5.0 with the qualified Bluetooth® mesh profile stack it supports 802.15.4 and NFC-A. With its Cortex™ M4F processor, 256kB RAM and the build-in 1MB flash memory it can easily be used in standalone mode, thereby eliminating the need for an external processor, saving complexity, space and cost.

### Key Features

- Featuring Nordic nRF52840
- Cortex™ M4F processor, 256kB RAM, 1MB flash memory
- BLE5.0, 802.15.4 and NFC-A
- LE 2Mbps high-speed / long range
- Includes ARM® TrustZone® Cryptocell 310 supporting secure boot
- SMT Size: 15.6mm x 8.7mm x 2.1mm
- Voltage range: 1.7V to 5.5V
- Temperature range: -40°C to 85°C
- Built-in temperature sensor
- 4.8mA Tx (0dBm) / 4.6mA Rx (1Mbps)



### Industrial IoT

- Smart City Infrastructure
- Industrial Mesh Network
- Industry 4.0 (Robotics)



### Smart Home/Building

- Building Automation
- Smart Locks
- Metering



### Medical Devices

- Smart Health
- Secure Medical Peripherals



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