



Wireless Connectivity > Evaluation Kits >  
**PAN1780-AT Series Evaluation Kit**

# PAN1780-AT SERIES EVALUATION KIT

The **PAN1780-AT Evaluation Kit (ENW89854AYKF)** is an all-inclusive and comprehensive Evaluation Kit available to support rapid prototyping with the PAN1780-AT Series RF Module.

The **PAN1780-AT Evaluation Kit** consists of two dongles. Each dongle has a PAN1780-AT Module on board based on the Nordic nRF52840 single-chip controller with integrated BlueRadios nBlue™ Bluetooth AT.s Low Energy Command Set. The AT command Set eases integration of the PAN1780-AT Module with most industry Host controllers. The PAN1780-AT Module is fully configurable via AT commands which in turn reduces the design cycle of the product. The detailed integration guide also describes how to start up and use the PAN1780-AT Module with the integrated BlueRadios nBlue Bluetooth AT.s LE Command Set on the Evaluation Board. The New PAN1780-AT Evaluation Kit also supports Type 2 Near Field Communication (NFC-A) for use in out-of-band pairing by way of an external NFC antenna. The break-out headers on Evaluation Kit provide an easy way to connect Sensors, as well as other devices for rapid prototyping.

### More About the PAN1780-AT Series

The **PAN1780-AT Series RF Module** is Panasonic's Bluetooth 5 Low Energy (LE) RF Module based on the Nordic nRF52840 single-chip controller with integrated BlueRadios nBlue™ Bluetooth AT.s LE Command Set.

For information on the BlueRadios nBlue Bluetooth AT.s LE Command Set please contact your local Panasonic Sales Representative. Bluetooth 5 features additionally a higher symbol rate of 2 Mbps using the high-speed LE 2M PHY or a significantly longer range using the LE Coded PHY at 125 kb/s. The new channel selection algorithm (CSA#2) improves the performance in high interference environments. Furthermore, the new LE advertising extensions allow for much larger amounts of data to be broadcasted in connectionless scenarios.

An output power of up to 8 dBm and the high sensitivity of the nRF52840 in combination with the LE Coded PHY make the **PAN1780-AT Series** RF Module from Panasonic very attractive in applications where a long range is required. In addition, the ultra-low current consumption of the **PAN1780-AT Series** makes it an ideal choice for battery powered devices.

The Panasonic **PAN1780-AT Series** also supports Type 2 Near Field Communication (NFC-A) for use in simplified pairing and payment solutions (external antenna required).

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