

New Product Introduction

PAN1780 Wirepas Mesh Demo Kit



The PAN1780 Wirepas Mesh Demo Kit is a ready-to-use Evaluation Tool based on the PAN1780 in combination with the Wirepas Mesh connectivity stack. The kit consists of four battery-powered sensor nodes and one sink which acts as a border router. The Demo Kit is intended for engineers, product designers or any IoT enthusiast, seeking high performance ready-to-use Wirepas Sensor Nodes to set up a Wirepas Mesh network at any time and at any place in just a few steps. The launch of the PAN1780 Wirepas Mesh Demo Kit springs from Panasonic's collaboration with IoT software consulting firm, Symbiotech. Panasonic Industry provides a sensor node with a long wireless transmission range, achieved by the optimized chip antenna of the PAN1780. All the mesh networking is performed automatically and without configuration on field by the integrated Wirepas Mesh stack. The downloadable sink software package enables an extremely easy set-up of the demonstration, with a user interface that shows sensor data, offers control and gives insight into the network health. PAN1780's high quality hardware design paired with Wirepas' multi-hop wireless mesh technology and combined with Symbiotech's tailored software design allows an easy and quick entry into the capabilities of mesh applications based on the PAN1780 and the Wirepas Mesh connectivity stack.

Content of the Demo Kit

- 4x PAN1780 pre-flashed Sensor Boards as Mesh Nodes
- 1x PAN1780 Sink as Gateway
- 4x Panasonic CR2032 Batteries for battery operated operation

Technical Features

- Temperature sensing via HTS221 sensor
- Switchable operation modes via SPDT switch (Low Energy or Low Latency)
- Coin cell holder for battery-powered operation
- USB-C connector for power supply
- 6-Pin SWD for flashing customized Wirepas applications
- User LED controllable from the web user interface
- Can be optionally assembled: Panasonic PIR sensor, pressure sensor (LPS22HH), digital microphone (MP34DT05-A)

Technical Documentation

All technical information on the PAN1780 Wirepas Mesh Demo Kit can be found under:

https://pideu.panasonic.de/development-hub/wirepas_demo_kit

Contents of the Wireless Connectivity Development Hub:

- User Guide
- Quick Start Guide
- Downloadable schematics of the Sensor Nodes as reference design

Part Number Information

Part Numbers	Description	Series Name
ENW89854ATKF	The PAN1780 Wirepas Mesh Demo Kit is a ready-to-use Evaluation Tool based on the PAN1780 in combination with the Wirepas Mesh connectivity stack.	PAN1780 Wirepas Mesh Demo Kit

Block Diagram

