

PTK1062 PC-Based 60 GHz Evaluation Kit



60 GHz Evaluation Kit Overview

Compliant with the IEEE 802.11ad standard, the Evaluation Kit (EVK) is a ready-to-use, configurable 60 GHz radio, which provides up to 3.5 Gbps of throughput in both point-to-point (PtP) and point-to-multipoint (PtMP) topologies, allowing rapid and efficient evaluation of features and performances.

The EVK integrates Pharrowtech's PTM1060 Radio Frequency Module, the Renesas RapidWave™ RWM6051 Modem Integrated Circuit and an Intel NUC Mini PC.

Software Development Kit

The EVK includes a software development kit (SDK) with a board support package (BSP) and a configuration tool.

Key Features

- Standard: IEEE 802.11ad
- Frequency range: 57-71 GHz
- Channel bandwidth: 540 MHz / 1.08 GHz / 2.16 GHz
- Throughput: 3.5 Gbps
- Modulation up to 64 QAM
- 32 TX and RX RF chains
- Antenna: 8x8 phased array antenna with electronic beamforming

Kit includes

- Intel NUC Mini PC
- PTX1060 Radio Module including Pharrowtech PTM1060 RFM and Renesas RWM6051 Modem
- Pre-installed firmware and SDK
- Documentation
- PCB Reference Design
- Pharrowtech Radio Control Tool (PRCT) GUI
- Custom Beambook Generator Tool
- Tier1 Technical Support & Training

Applications and Markets

- Wireless infrastructure: backhaul and access
- Consumer: Wireless TVs and docking stations
- Industrial, scientific, and medical (ISM): Cable replacement
- VR/AR: Wire-free GPU-assisted headsets
- Smart Cities: High Resolution CCTV and public Wi-Fi
- Military: Secure communications

Pharrowtech PTR1060 RF IC and PTM-1060 RF Module

Compliant with IEEE 802.11ad/ay and 3GPP (Rel. 17) ready, the Pharrowtech PTR1060 is the world's first fully integrated mmWave CMOS receiver and transmitter Radio Frequency Integrated Circuit (RFIC) that operates over the entire 57 - 71 GHz band.

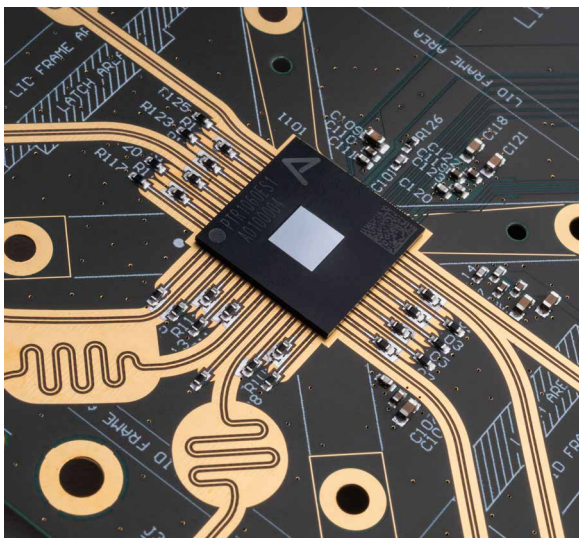
The PTM1060 combines the PTR1060 RFIC with an 8x8 phased array antenna. The chip delivers a unique combination of superior RF performance, low power consumption, low-cost structure and unique value-add features.

Renesas RapidWave™ RWM6051 modem IC

Compliant with IEEE 802.11ad, the Renesas RapidWave™ RWM6051 modem IC is a millimeter wave (mmWave) multi-gigabit mixed signal wireless SoC solution.

The RWM6051 features a high degree of configurability with flexible channelization, adaptive MCS, and interference management schemes enabling next generation of self-organizing PtP, PtMP, and Mesh systems.

Ordering Information	Ordering Part Number	Shipping
	PTK1062	Box



About Pharrowtech

Pharrowtech develops innovative wireless platforms to simplify and accelerate the adoption of millimeter-wave technology for mass-market applications. Our products include radiofrequency and digital semiconductors, phased array antennas, and software solutions.

Pharrowtech's leading products serve fast-growing markets including broadband fixed wireless access (FWA) and 5G, as well as high performance Wi-Fi platforms for consumer electronics, virtual reality (VR) headsets, and smart city IoT applications.

Contact us at info@pharrowtech.com for more information.

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