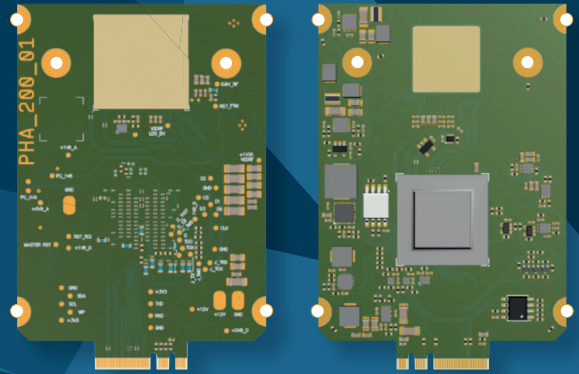


PTX1060 60 GHz Wireless Module



60 GHz Wireless Module Overview

Compliant with the IEEE 802.11ad standard, the 60 GHz wireless module is a compact, low-cost, ready to plug-in 60 GHz wireless module, which provides up to 3.5 Gbps throughput in both point-to-point and point-to-multipoint topologies.

The 60 GHz wireless module integrates into a 5 x 7 cm board the Pharrowtech's PTM1060 Radio Frequency Module, the Renesas RapidWave™ RWM6051 Modem Integrated Circuit, and connectivity with any third party NPU board via a standard high-capacity M.2 interface.

Key benefits for OEMs and ODMs

- Minimized NRE
- Reduced Time-To-Market
- Reduced development risks
- Low cost
- High manufacturing quality, reliability, volumes
- Regulatory certification (FCC, ETSI)
- Available in ready to deploy, high performance ODM product

Key Features

- Operating mode: PtMP & PtP
- Standard: IEEE 802.11ad
- Frequency range: 57-71 GHz
- Channel bandwidth: 540 MHz / 1.08 GHz / 2.16 GHz
- User data rate: 3.5 Gbps
- Subscribers per sector: 30
- Scheduler: TDMA
- Duplex: TDD
- Downlink/uplink split: Asymmetric
- Antenna: 8x8 phased array antenna with electronic beamforming
- FoV Azimuth: $\pm 45^\circ$
- FoV Elevation: $\pm 30^\circ$
- High gain antennas: Supported
- QoS: 4 queues
- Connector: Standard M.2
- Dimensions: 53 x 72 mm

Target applications

- Fixed wireless access (FWA)
- Infrastructure connectivity
- 5G Small cell backhaul
- Industrial, Scientific, and Medical (ISM) band data transfer
- High-definition video wireless transmission
- AR/VR

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.

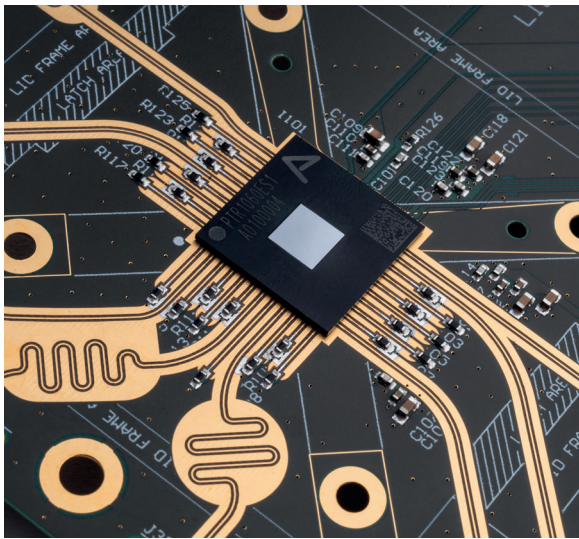
The PTM1060 combines the PTR1060 RFIC with an 8x8 phased array antenna. The chip delivers a unique combination of superior RF performances, low power consumption, low-cost structure and unique value-add features.

Renesas RapidWave™ RWM6051 modem IC

Compliant with IEEE 802.11ad, the Renesas RapidWave™ RWM6051 modem IC is a millimeter wave (mmWave) multi-giga-bit 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
	PTX1060	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 radio-frequency 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 WiFi platforms for consumer electronics, virtual reality (VR) headsets, and smart city IoT applications.

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

