



# MWC-434 WiGig USB Adapter

*60GHz (IEEE 802.11ad) Wireless USB adapter for ultra-fast speed and super-low latency communication solutions*

## Product

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**OVERVIEW** The Miliwave MWC-434 WiGig USB Adapter (IEEE 802.11ad compliant) designed for ultra-fast speed and super- low latency wireless communication products such as Wireless 8K AR/VR Headset, Wireless 4K UHD Display/Signage, Point-to-Point Multi-Gigabit Backhaul and Multi-Gigabit Fixed Wireless, etc. It includes Baseband, 60 GHz RF Radio (Single or Dual) with phase array beam-forming antenna for bi-directional communications.

### MAIN FEATURE

- . IEEE 802.11ad fully compliant
- . 2.0Gbps throughput @ LOS 10 meters
- . Robust wireless connection with world's first 60GHz dual-RF technology
- . Adaptive beam-Forming Algorithm
- . SIZE: 35.0mm X 45.0mm (MWC-434 – Dual RF),
- . POWER CONSUMPTION: < 3.5 W

### APPLICATIONS

- . Wireless 8K AR/VR Headset
- . Wireless 4K/8K UHD Display/Signage
- . Point-to-Point Multi Giga-bit Backhaul
- . Multi Giga-bit Fixed Wireless
- . Router for Smart Rout

### CHARACTERISTICS

- . Quad-core ARM Cortex A-53 CPU
- . IEEE 802.11ad Single-Carrier PHY
- . IEEE 802.11ad MAC
- . On-board Boot ROM/SRAM
- . INTERFACE: USB3.0
- . Driver auto-load from on-board flash memory
- . Supports MCS 0 ~ 12
- . Beam-forming Phase Array
- . Support Ch2
- . AVE. EIRP: 25dBm
- . EVM: -22dB

### CERTIFICATION

- . FCC approved

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### FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times.

### OEM Responsibilities to comply with FCC

- The OEM integrator is responsible for ensuring that the end-user has no manual instructions to remove or install module.
- The module is limited to installation in mobile or fixed applications.
- The transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.
- Separate approval will be required for all other operating configurations, including portable configurations with respect to Part 2.1093 and different antenna configurations other than supplied antennas.

As long as the condition above is met, further transmitter testing will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.). Also, the OEM integrator is responsible to provide to the host manufacturer for compliance with the Part 15B requirements.

### Host User Manual

The host manual shall include the following regulatory statement:

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## Host Product labeling

The module is labeled with its own FCC. If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labeled in a visible area with the following:

“Contains FCC ID: 2AVCWMWC434”