

GigaDevice Wi-Fi 6 & BLE 5.2 Combo Modules

Based on the GigaDevice GD32VW553 Combo Wireless SoC

FAMILY OF 6 MODULES & 4 FOOTPRINTS

INDUSTRIAL & EXTENDED TEMP

PCB OR EXT ANTENNA



RISC-V 160MHZ CORE

4096K FLASH

320K SRAM MCU



LOW POWER BLUETOOTH (BLE 5.2)

- High speed 2M PHY
- LR Coded PHY: 125/250Kbps
- BLE Mesh



Wi-Fi 6

- 802.11 b/g/n/ax
- 802.11i (WPA, WPA2, WPA3) Open, Shared Key and Pairwise Key
- Authentication services
- 802.11ax MCS up to MCS9 with Max PHY rate of 114.7Mbps
- Single antenna 1x1 stream in 20MHz Channels
- Support for 802.11ax with 20MHz features
- Target Wake Time (TWT), OFDMA

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	MD1 Module		UniFi Module		Mini Module	
Part Number	GD32VW553-MD1-IMH6	GD32VW553-MD1-EMK6	GD32VW553-UniFi-IMH6	GD32VW553-UniFi-EMH6	GD32VW553-MINI-IMHx	GD32VW553-MINI-EMHx
Antenna Type	PCB Antenna	Ext Antenna	PCB Antenna	Ext Antenna	PCB Antenna	Ext Antenna
Dimensions	20 x 18 x 2.4 mm	20 x 18 x 2.4 mm	24 x 16 x 2.2 mm	24 x 16 x 2.2 mm	15 x 12.4 x 2.4mm	9.5 x 12.4 x 2.4mm
I/O Pins	29 I/O	29 I/O	18 I/O	18 I/O	21 I/O	21 I/O
Temp Range	-40 ~ 85°C -40 ~ 105°C	-40 ~ 85°C -40 ~ 105°C	-40 ~ 85°C -40 ~ 105°C	-40 ~ 85°C -40 ~ 105°C	-40 ~ 85°C -40 ~ 105°C	-40 ~ 85°C -40 ~ 105°C