MC320-W

Speakerphone | USB Wireless Cascade Speakerphone

Wireless speakerphone system supporting 2-unit cascade, 8-mic MEMS array, AI audio processing — covering medium to large conference rooms.

FOR TODAY & TOMORROW

8-Mic Array | AI Noise Reduction | 12m+ Coverage | 12H Battery | BT 5.3 + BLE | USB + 2.4G



The ATVI MC320-W is a wireless cascade speakerphone supporting 2-unit wireless linking for extended coverage in medium to large rooms. Each unit features an 8-mic MEMS array, AI 3A audio processing, and 12-hour battery for professional-grade conference audio.

Pickup Range 12m+ radius (2 cascaded units)	**Microphones** 8-Mic MEMS	**Battery** 5500mAh / 12H
Bluetooth BT 5.3 + BLE	**Speaker Power** 5W Max × 2	**Interface** USB 2.0 + 2.4G

IDEAL FOR

Medium Conference Rooms Extended coverage for medium to large rooms	**Remote Work** Home office and hybrid work conference calls	**Education** Online classes and distance learning sessions	**Large Meeting Rooms** 2-unit cascade for full-room audio coverage

PRODUCT DESCRIPTION

The ATVI MC320-W is a wireless cascade speakerphone system designed for medium to large conference rooms. It supports 2-unit wireless cascading for expanded coverage, with each unit featuring an 8-microphone MEMS array, 6m pickup radius, and AI 3A audio processing — delivering full-duplex audio across the entire room.

The MC320-W connects via USB Type-C (USB 2.0) for wired use, or wirelessly through the included 2.4GHz USB dongle — supporting 24kHz bidirectional audio on Windows 8.1/10/11 and macOS 10.10+. Bluetooth 5.3 + BLE provides a third wireless connection mode with 12m range.

The MC320-W system supports wireless cascade of 2 units, seamlessly doubling the audio coverage area. Each unit is powered by AI Noise Reduction, AEC, and AGC. With a 5500mAh battery and 24kHz sampling, the system delivers professional-grade HD audio for larger rooms.

- **12m+** Combined Range
- **8-Mic** MEMS Array
- **12H** Battery Life
- **5W × 2** Speaker Power
- **BT 5.3** + BLE Wireless
- **AI 3A** AEC / ANC / AGC

PRODUCT KEY FEATURES

8-Mic MEMS Array
Eight high-sensitivity MEMS microphones provide 360° omnidirectional pickup with 6m radius for clear, consistent voice coverage from any seat.

AI Noise Reduction
Advanced AI algorithms suppress background noise in real time, keeping voices natural and intelligible throughout the call.

AI Echo Cancellation
AI AEC eliminates acoustic echo and double-talk artefacts for smooth, interruption-free full-duplex conversation.

AI AGC
Automatic gain control continuously balances microphone levels, ensuring consistent audio regardless of speaker distance.

12H Battery Life
Built-in 5500mAh/3.7V lithium battery delivers up to 12 hours of continuous operation; charges at 5V/1A via USB.

1.75-Inch Speaker
High-loudness 1.75-inch dynamic speaker delivers clear playback up to 5W with 92dBSPL@1m maximum sound pressure.

USB + 2.4G Dongle
Type-C USB 2.0 wired and 2.4GHz wireless dongle (included) provide plug-and-play connection with no driver needed.

2-Unit Cascade
Wireless cascade links 2 units seamlessly, doubling the coverage area without additional cables or hubs.

One-Touch Controls
7 physical buttons — mic mute, volume +/−, answer/hang up, Bluetooth, power, and cascade — provide instant hands-on control.

TECHNICAL SPECIFICATIONS

MICROPHONE SPECIFICATIONS	
Pickup Distance	6m radius (each unit); 3m recommended
Microphone Type	8-array omnidirectional MEMS
Frequency Response	100Hz ~ 12kHz (24kHz high sampling mode)
SNR (MEMS Monomer)	65dBA
Sensitivity (MEMS)	-26dBFS
Sampling Rate (AI Mode)	24kHz
Speaker Power	1 × 5W Max (each unit)
Impedance	4 Ohm
Max SPL	92dBSPL @ 1m (pink noise, max power)
SPEAKER SPECIFICATIONS	
Distortion	≤1% @ 1W, 1kHz
Speaker SNR	≥75dB
Freq. Response	120Hz ~ 18kHz
Speaker Unit	1.75 Inch, High-Loudness Dynamic
CONNECTIVITY & POWER	
Bluetooth	BT 5.3 + BLE, 2.4GHz, 12m range
Battery	5500mAh / 3.7V Lithium
Battery Life	Up to 12 Hours
Charge Input	5V / 1A
Keystrokes	7 buttons: Mic, Vol+, Vol-, Answer/Hang Up, BT, Power, Cascade
LED Indicator	Battery, Volume, Microphone, Incoming Call
GENERAL	
Dimensions	126 × 126 × 34mm (diameter × height)
Package Size	156 × 156 × 64mm (L × D × H)
Net Weight	0.62 kg
Gross Weight	0.40 kg
Operating Temp.	0°C ~ 40°C

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