# micnode2

## Next generation microphone station

The micnode2 is a next generation microphone station for advanced applications. It can display a built-in user interface, Simpleway CX applications, third party HTML5 applications or a Q-SYS™ UCI.

It is built on top of the nnounce™ secure & scalable audio platform. It has powerful built-in signal processing capabilities exceeding capabilities of dedicated signal processors. Its neural engine enables speech-to-text and text-to-speech inside the device.

The device can communicate over the network using all contemporary audio standards such as AES67, RTP or VoIP. It can add an extra encryption layer to prevent eavesdropping by malicious actors.

A secure-enclave element built in enables secure connectivity to all major industry cloud providers. The device can be used with Simpleway CX cloud out of box.

## key features

- Microphone station with **customizable user interface** for advanced applications

- Easily expandable to secondary location using **micnode aux** accessory microphone

- Compatible with **Q-SYS**

- Audio processing using powerful built-in **processing engine**

- Hardware **neural engine** for applications such as text to speech and speech-to-text

- Enhanced security thanks to **encryption** of industry standard audio protocols such as AES67

- Easily usable with **Simpleway CX** cloud

- File **recording and playback** capability

# micnode2

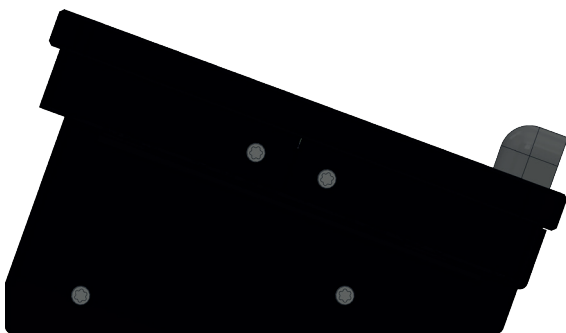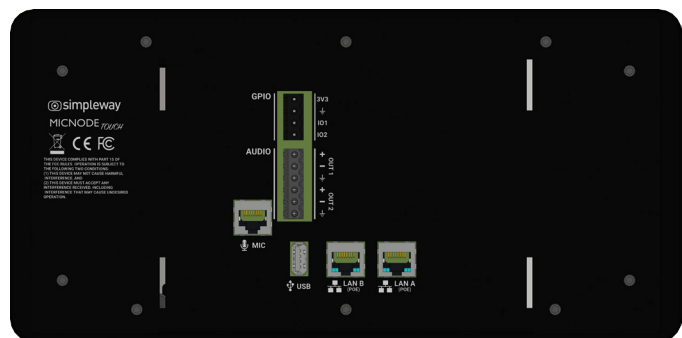| | |
|---|---|
| **Description** | Secure microphone station with built−in processing, neural engine and I/O |
| **Audio** | AD Converter: 24 Bit @ 48 kHz 125 dB−A Dynamic Range − 0.00x % THD+N Crosstalk (1 kHz) − 60 dB<br><br>DA Converter: 24 Bit @ 48 kHz 115 dB−A Dynamic Range − 0.00x % THD+N<br>Max output level 1.44 Vrms<br>2.5 ms end−to−end latency<br><br>AES67 network audio (with optional encryption) |
| **Connectivity** | 1 x Front panel accessible Microphone input<br>1 x Rear Aux microphone station input<br>2 x Balanced audio output<br>2 x Protected GPIO<br>1 x USB−A<br>2 x LAN RJ45 1000 Mbps with PoE |
| **DSP** | Built−in web−based graphical DSP pipeline designer<br>60+ Component library<br>Extended precision fixed point processing<br>API library |
| **User Interface** | 8" Capacitive touch screen, WUXGA (1920x1200)<br>Web−based interface<br>Cloud−connected |
| **Security** | Secure boot<br>Encrypted firmware<br>Tamper sensing<br>Secure enclave chip<br>AES256−GCM encryption for AES67 |
| **Storage** | Onboard microSD card slot, included 32GB card |
| **Environmental** | Operating temperature range 32 °F − 122 °F (0 °C − +50 °C)<br>Storage temperature range 14 °F to 140 °F (−10 °C − +60 °C) |
| **Power** | IEEE 802.3af power over Ethernet (PoE), typical 8W - max 15W |
| **Dimensions** | 290 mm (W) x 27 mm (D) x 145 mm (H) (without Desk Stand)<br>1 630 g without mounting kit |
| **Accessories** | Wall mount<br>Handheld microphone<br>Desk Stand (optional)<br>Micnode AUX Station (optional) |

DESK STAND (SIDE VIEW)

REAR VIEW