

# SPECS



## Product

Model No.	NC-VK-9727
Conformity	CE, FCC
FCC-ID	2A8ZEO2
Origin	Made in PRC

## Product details

SoCs	ESP32-S3 SoC with 16 MB of FLASH storage 8 MB octal PSRAM
Audio processing	XMOS XU316  Featuring: <ul style="list-style-type: none"><li>• Echo cancellation</li><li>• Stationary noise removal</li><li>• Auto gain control</li></ul>
Power and data	USB-C, 5 V DC, 2 A
Radios	2.4 GHz Wi-Fi Bluetooth 5.0 Low Energy
Audio output	3.5 mm (1/8") stereo headphone jack  Digital to analog converter (DAC): <ul style="list-style-type: none"><li>• TI AIC3204</li><li>• 48 kHz sampling rate</li></ul>



<b>Physical controls</b>	Multipurpose button Rotary dial for volume and other input Mute switch that physically cuts power to the microphone
<b>Microphone &amp; speaker</b>	Internal speaker Internal dual-mic array Hardware mute switch Dedicated I2S lines for audio in and out
<b>Expandability</b>	Grove port to connect sensors or other accessories Easy to open - no clips, only screws to access internals Exposed pads on PCB for modding
<b>Software</b>	ESPHome preloaded Fully open-source firmware for both the ESP32 and XMOS chip
<b>Requirements</b>	Home Assistant already configured on another device.  For fully local speech processing, it is recommended to have a Home Assistant system based on an Intel N100 or higher. Weaker hardware will require a Home Assistant Cloud subscription for optimal speech processing performance.
<b>Language support</b>	Check Home Assistant Assist documentation for an <a href="#">up-to-date list</a> .
<b>Environmental conditions for operation</b>	Indoor use only 0 °C to 30 °C 32 °F to 86 °F  Humidity: non-condensing Keep in dry, not excessively dusty environment as this can cause damage to the unit
<b>Dimensions &amp; weight</b>	Device: 84x84x21 mm, 96 g  With box: 94x94x30 mm, 120g
<b>Material</b>	Enclosure <ul style="list-style-type: none"><li>Polycarbonate plastic</li><li>Colors: White and semi-transparent</li></ul>

