Home Assistant Voice Preview Edition

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: • Echo cancellation • Stationary noise removal • Auto gain control
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 (⅛") stereo headphone jack Digital to analog converter (DAC): • TI AIC3202 • 48 kHz sampling rate

Physical controls	Multipurpose button Rotary dial for volume and other input Mute switch that physically cuts power to the microphone
Microphone & speaker	Internal speaker Internal dual-mic array Hardware mute switch Dedicated I2S lines for audio in and out
Expandability	Grove port to connect sensors or other accessories Easy to open - no clips, only screws to access internals Exposed pads on PCB for modding
Software	ESPHome preloaded Fully open-source firmware for both the ESP32 and XMOS chip
Requirements	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.
Language support	Check Home Assistant Assist documentation for an up-to-date list.
Environmental conditions for operation	Indoor use only O °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
Dimensions & weight	Device: 4x84x21 mm, 96 g With box: 94x94x30 mm, 120g
Material	Enclosure • Polycarbonate plastic • Colors: White and semi-transparent