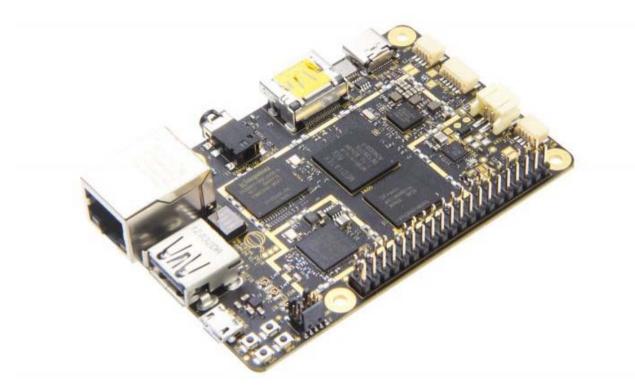# Pumpkin Evaluation Kit Smart Audio Edition

SKU 114991845

Evaluation Kit for Rich IoT applications. Designed for smart devices with Voice Assistant capability (Alexa, Google Assistant, speech recognition NLP/ASR).

The Pumpkin Evaluation Kit – Smart Audio Edition is a single-board computer (SBC) powered by MediaTek MT8516 SoC. Designed for Rich IoT market this EVK jump-starts the development of products with Voice Assistant capability (smart speakers, smart appliances, robots).

Ready for Edge AI development with TensorFlow Lite support.

Suitable for indoor/outdoor home and industrial applications through extended coverage with Wi-Fi 5 2x2 MIMO.

Powered by the ARM quad-core Cortex-A35 power efficient 64-bit CPU solution this EVK is a great solution for smart battery operated devices.

Technical Details

Pumpkin EVK - Smart Audio Edition	
SoC	MediaTek MT8516
CPU	Quad-Core ARM Cortex-A35 @ 1.3GHz
RAM	1GB LPDDR3
Flash	- 4GB e.MMC - Optional SLC NAND configuration
Storage	Micro-SD card slot (card not included)
Wireless	- MediaTek MT7668 - Wi-Fi 5 (802.11ac) 2x2 MIMO dual-band (2.4GHz, 5GHz) - Bluetooth 5
Battery Charger	Charging (USB Type-C) and power path
Expansion	40-pin GPIO connector

USB	- Type-C (Host/Device, 5V DC power, charging) - Type-A (Host) - Micro-B (Serial Console)
Ethernet	10/100Mbps
Audio	- 3.5mm stereo headset jack - 2x digital PDM microphone connectors - 8-ch audio input / 8-ch audio output

Software	
OS	Yocto Linux
Kernel	4.19
Bootloader	U-Boot
Security	Secure Boot, TrustZone, TF-A 2.1, OP-TEE
Audio Far-Field	DSP Concepts
Voice Assistant	Alexa, Google Assistant
AI	TensorFlow Lite

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