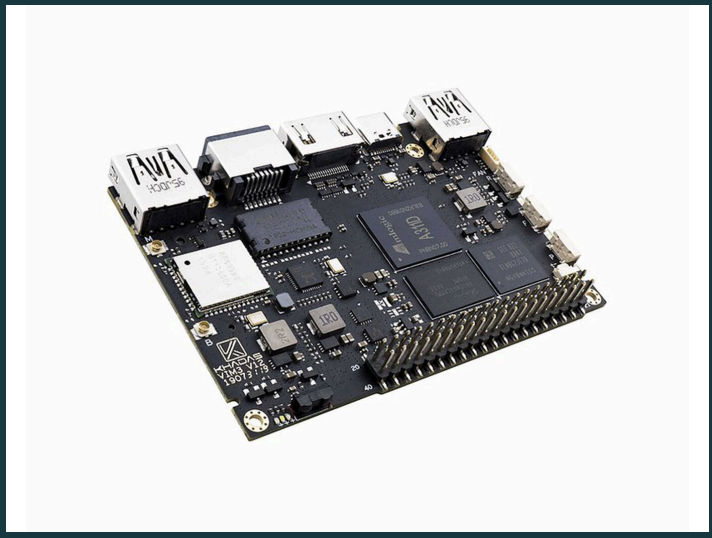
seeed studio

INDUSTRIAL PRODUCT DATASHEET

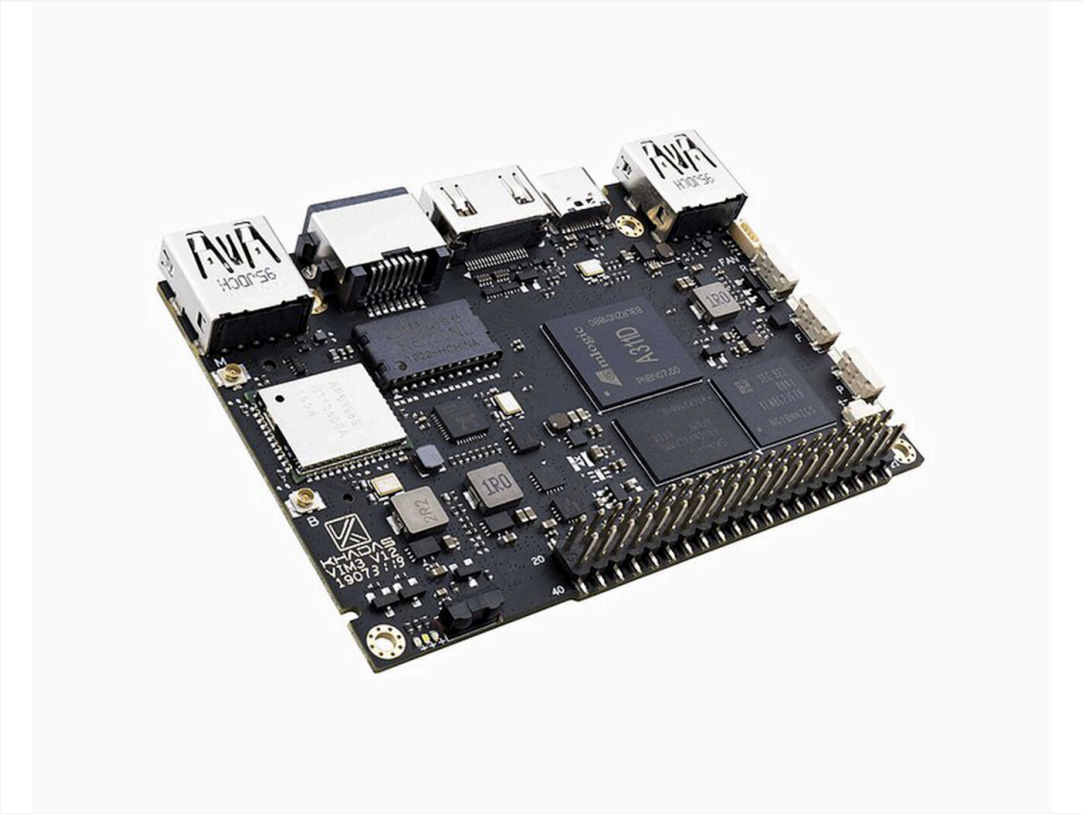
Khadas VIM3 Basic SBC - A311D SoC with 5 TOPS NPU, 2GB RAM, 16GB eMMC, Dual Display, Dual Camera, SSD via m.2, Wi-Fi/ Bluetooth 5.0

The VIM3 SBC is a compact size SBC that has a powerful Amlogic A311D SoC: x4 Cortex A73 performance-cores (2.2Ghz), and x2 Cortex A53 efficiency-cores (1.8Ghz) are merged into a hexa-core configuration and fabricated with a 12nm...

SKU	UPDATED	PRICE
102110481	2026-11-11 06:36:06	$99.99(Excl. VAT)



Overview



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Key Features

01 **Powerful Amlogic A311D hexa-core SoC with a 12nm process to maximize performance, thermals, and electrical efficiency**

02 **Next-generation, NPU at 5.0 TOPS for advanced AI applications with support for deep learning models such as TensorFlow, Caffe and Darknet**

03 **Switchable PCIe and USB 3.0 interface via software**

04 **SSDs and extension boards connectivity via the M.2 interface**

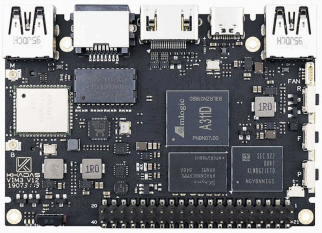
05 **Wide-range of power inputs via USB-C, from 5-20V for power-hungry applications**

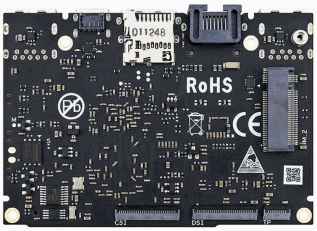
06 **HDMI at 4K and MIPI-DSI at 1080P for adding dual independent displays, with TP connector for multi-touch inputs**

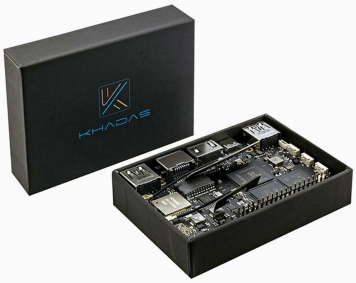
07 **3-axis digital accelerometer for display rotation detection**

08 **Dual camera support via the 4 lane MIPI-CSI, up to 8MP ISP, with 30-pin 0.5mm pitch FPC connector**

Product Gallery







Applications

- Mini computer
- Nano Server
- AI and Robotics
- Crypto Mining Cluster
- Digital Signage

Resource Links

- https://www.seeedstudio.com/VIM3-Basic-p-4705.html

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