

AVerMedia



**ELITE
PARTNER**

AVerAI AG411B Box PC

Preliminary

**AG411B Box PC supports 2x M.2 and 4x mPCIe slots alternatively
It equips NVIDIA® Jetson AGX Xavier™ 32GB module**



Features

- Embedded NVIDIA® Jetson AGX Xavier™ 32GB module
- 2x M.2 Key M 2280 or 4x mPCIe alternatively
- 1x M.2 Key E 2230 for Wi-Fi module
- 1x M.2 Key M 2280 for NVMe
- 2x GbE, 2x USB 3.0, 2x 4Kp60 HDMI output
- 1x CAN bus with transceiver
- Wide input voltage: 15~54V DC Input
- Easy to use with expansion I/O on one side.
- Operating temperature: -10°C ~ 60°C
- Dimension: W: 190mm x L: 239mm x H: 88.5mm

Introduction

AVerMedia AVerAI Box PC AG411B equips NVIDIA® Jetson AGX Xavier™ 32GB module which aims it at AI centric use cases for edge computing such as heavy industry and industrial automation with wide input voltage operation. AG411B is easy to use with expansion I/O on one side.

AG411B Box PC provides 2x M.2 Key M 2280 and 4x mPCIe slots alternatively for Xavier to receive various video inputs by using AVerMedia's capture cards.

These 2x M.2 Key M 2280 and 4x mPCIe slots share PCIe Gen2 x4 lanes, so AG411B Box PC can provide three different combinations for developers to install video capture cards alternatively, such as 2x M.2 Key M 2280 slots, 4x mPCIe slots, and 2x mPCIe slots with 1x M.2 Key M 2280 slot.

By using AVerMedia's extended video capture cards, Xavier is able to receive HDMI, VGA, SDI, composite video inputs, and even dual 4Kp30 HDMI video inputs for different application scenarios.

This highly integrated edge computer is a well prepared application ready system for developers to overcome the challenges timely and easily.

Embedded Vision Solutions for NVIDIA Jetson

AVerMedia offers 3 categories of Embedded Vision Solutions for deep learning application on the edge devices, with the support of NVIDIA Jetson family, battery power, HDMI/VGA/3G-SDI/Composite video sources, and the direct technical support for developers.

- Standard and customized of Nano/Tegra/Xavier NX/AGX Xavier carrier boards
- Standard and customized Nano/Tegra/Xavier NX/AGX Xavier application-ready systems
- Software design service of Linux BSP, driver, OpenCV, VisionWorks, and cuDNN.

Why AVerMedia

- As NVIDIA® ELITE partner, AVerMedia gets the direct support from NVIDIA. We are able to offer technical support in 24 hours to help your project success.
- Support full range of NVIDIA Jetson modules, including Nano, Tegra, Xavier NX, and AGX Xavier.
- Support various video input sources from IP camera, USB camera, MIPI camera, and capture cards supporting HDMI/VGA/3G-SDI/Composite video sources.
- Provide customization services of HW, PCB, chassis, BSP, driver, and UX/UI/ID/ME design.
- Supports 60°C/140°F operating temperature for fanless system.
- Provide flexible user-configured security to protect the SW.

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Specifications

| | |
|-------------------------------------|---|
| Model | AG411B |
| Type | Box PC |
| NVIDIA GPU SoC Module Compatibility | NVIDIA® Jetson AGX Xavier™ 32GB module |
| Networking | 2x GbE RJ-45 |
| Display Output | 2x HDMI 2.0, maximum resolution: 3840 x 2160 at 60Hz |
| Temperature | Operating temperature -10°C~60°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing |
| USB | 1x USB 2.0 Micro-B for RNDIS 2x USB 3.0 Type-A (USB3.1 x2) 3x USB 2.0 |
| Storage | 32GB eMMC 5.1 & 1x micro-SD card slot |
| RS-485 | 1x RS-485 |
| CAN bus | 1x CAN bus with transceiver |
| Audio | 1x Mic-in 1x Speaker-out |
| Expansion Header | 40 pins: 1x UART, 2x 12C, 1x CAN (W/O transceiver), 5x GPIO |
| User Expansion | 1 x M.2 Key E 2230 for Wi-Fi module (PCIe Gen4x 1) 1 x M.2 Key M 2280 for NVMe (PCIe Gen4x 4) 2 x M.2 Key M 2280 (PCIe Gen2x 4) or 4x mPCIe Gen2 x1 1 x SATA |
| DIP Switch Expansion | 1. Auto power on enable/Disable (External) 2. FAN PWM on enable/Disable (External) 3. RS485 Terminal ON/OFF (External) 4. CAN Bus Terminal ON/OFF (External) |
| Input Power | DC IN Plug (54V/2.78A) |
| Buttons | Power and Recovery (Power button with green LED) |
| RTC Battery | Support RTC battery and Battery Life Monitoring by MCU |
| Chassis Dimension/ Weight | W: 190mm x L: 239mm x H: 88.5mm Weight: 3.6Kg |
| Certifications | CE, FCC |

*All specifications are subject to change without prior notice.



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Compatible Cards



| Model Name | CN311-H | CN312SW |
|-----------------------|-----------------|-----------------|
| Host Interface | PCIe Gen2 x2 | PCIe Gen2 x4 |
| Max Input Resolution | 4096x2160 30fps | 2048x1080 60fps |
| Max Record Resolution | 4096x2160 30fps | 1920x1080 60fps |
| Channel No. | 1 | 2 |
| H/W Encode | | |
| Audio Interface | HDMI embedded | SDI embedded |
| Video Interface | SDI | ● |
| | HDMI | ● |
| | DVI | |
| | VGA | |
| | Composite | |
| Color Depth/Precision | 8 / 10bit | 8 bit |
| Color Format | YUY2, YUYV | YUY2, YUYV |
| Operating Temperature | 0°C~40°C | -20°C~70°C |
| Dimensions (LxW) mm | 22x80 | 22x80 |

*All specifications are subject to change without prior notice.



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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