

AVerAI AG411B Box PC

NVIDIA® Jetson AGX Xavier™ 32GB/64GB module



For Smart Surveillance and Smart Factory Applications

Overview

AVerMedia AVerAI Box PC AG411B equipped with NVIDIA® Jetson AGX Xavier™ 32GB/64GB module ensures a powerful performance for AI-based applications at the edge of the network in the fields of heavy industry and industrial automation which requires high precision and accuracy. AG411B Box PC designed with variety of I/O ports to connect sensors of all levels. Mixing and matching such ports and connections AG411B Box PC provide different combinations for developers to install video capture cards for fully integrated solution. Pairing AGX Xavier with AVerMedia’s extended video capture cards unlocks seamless development and deployment.

Enterprise-Leading Features

- Embedded NVIDIA® Jetson AGX Xavier™ 32GB/64GB module
- 2 x M.2 Key M 2280 or 3x mPCIe alternatively (SSD or Capture)
- 1 x M.2 Key E 2230 for Wi-Fi module
- 1 x M.2 Key M 2280 for NVMe
- 2 x GbE, 2x USB 3.0, 2x 4Kp60 HDMI output
- 1 x CAN bus with transceiver
- Wide input voltage: 12~54V 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

The AVerMedia Advantage



Video Processing Technology



Flexibility & Reliability



Dedicated After-Sales Support

AVerMedia understands that each business has a unique set of requirements that requires professional expertise and support. With AVerMedia, you are guaranteed to work with a proven global leader in video processing technology (200+ video capturing & streaming patents) with decades of experience processing multiple video signals for countless award-winning products.

A global leader that supports businesses of all sizes with comprehensive customization services (i.e., HW/PCB/BSP/etc.), flexible MoQ while ensuring a high-quality design and stable product. And for projects requiring additional security, we can provide customizable encryption hardware to support your privacy needs.

By partnering with us, a dedicated NVIDIA® ELITE Partner, our support-driven team offers prompt after-sales support so that your company stays focused on what matters most, customer acquisition.

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Application

Powered by NVIDIA's Jetson SoM, this power efficient SoM enables AI calculations and predictions on the edge of the network for applications such as driver safety and cost efficiency relationships. An expansive amount of interface options are available supporting AHD, IP, MIPI, etc., and is suitable for multiple scenarios requiring camera flexibility. And for various locations of installment the fanless design combined with optimized thermal chassis ensures full loading through a large temperature range.

AVerAI Ecosystem

We provide a rich ecosystem of partners to support your growth with the ability to help search for new business partners for your unique project. Our verified partner ecosystem maintains the highest level of experience and professionalism, while offering hardware, software and strategic services. No matter the size or level of experience, if you are looking to accelerate your growth, we have the resources to make it happen.

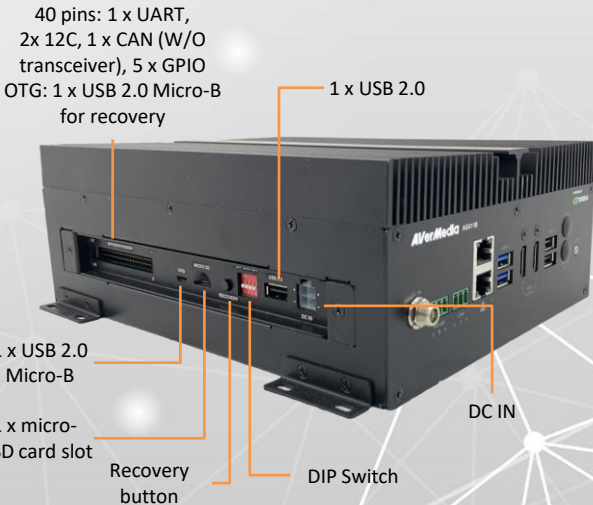
Expandability

In addition to the default selection of interfaces, frame grabbers can be added for expanded functionality.

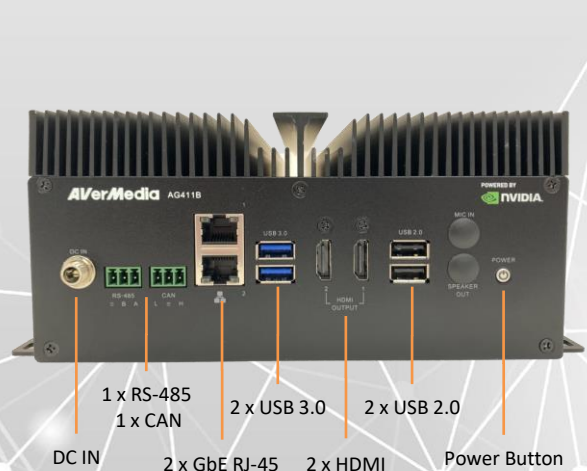
Model	Host Interface	Video Interface	Max Input Resolution
CN311-H	M.2 M key 2280	1x HDMI	4096x2160 30fps
CN312MW	M.2 M key 2280	1x SDI; 1x HDMI	2Kp60 in (SDI) 1920 x 1200 p60 in (HDMI) 1080p out
CN312SW	M.2 M key 2280	2x SDI	2Kp60 in - 1080p out

Interface Diagram

Front left



Front



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Specifications

Model	AG411B
Type	Box PC
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson AGX Xavier™ 32GB/ 64GB module
Networking	2 x GbE RJ-45
Display Output	2 x 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	2 x USB 3.1 Type-A 3 x USB 2.0 (one is on side)
Storage	32GB eMMC 5.1
RS-485	1 x RS-485
CAN bus	1 x CAN bus with transceiver
External Expansion on side	40 pins: 1 x UART, 2 x I2C, 1 x CAN (W/O transceiver), 5 x GPIO 1 x USB 2.0 Micro-B for recovery 1 x micro-SD card slot 1x Recovery button 1 x USB 2.0
DIP Switch Expansion on side	Auto power on enable/Disable FAN PWM on enable/Disable RS485 Terminal ON/OFF CAN Bus Terminal ON/OFF
Internal 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 3x mPCIe Gen2 x1 1 x SATA (Optional)
Input Power	DC Jack and ATX 4 pin (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: 240mm x H: 88.5mm (Product only) W: 214mm x L: 240mm x H: 88.5mm (With box pc wall mounts) Weight: 4 Kg
Certifications	CE, FCC, KC

*All specifications are subject to change without prior notice.

