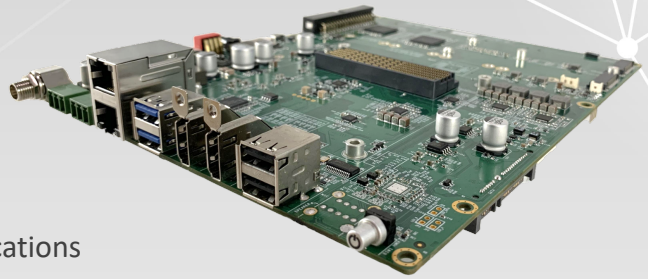
AVerAI AG411 Carrier board

NVIDIA® Jetson AGX Xavier™ 32GB module



For Smart Surveillance and Smart Factory Applications

Overview

AVerMedia AVerAI AG411 carrier board supports NVIDIA® Jetson AGX Xavier™ 32GB 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.

AG411 carrier board designed with variety of I/O ports to connect sensors of all levels. Mixing and matching such ports and connections AG411 carrier board 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

- Support NVIDIA® Jetson AGX Xavier™ 32GB module
- 2 x M.2 Key M 2280 or 3x mPCIe alternatively
- 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: -20˚C ~ 85˚C
- Dimension: W: 170mm x L: 220mm

The AVerMedia Advantage

Video Processing Technology

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.

Flexibility & Reliability

Dedicated After-Sales Support

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.

The product images are for illustration purposes only and may not be an exact representation of the product.

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NVIDIA® Jetson AGX Xavier™ 32GB module

Specifications

Model	AG411
Type	Carrier board
NVIDIA GPU SoC Module Compatibility	It apply to NVIDIA® Jetson AGX Xavier™ 32GB module
Networking	2 x GbE RJ-45 1 x M.2 Key E 2230 for Wi-Fi module (PCIe Gen4x 1)
Display Output	2 x HDMI 2.0, maximum resolution: 3840 x 2160 at 60Hz
Temperature	Operating temperature -20°C~85°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
USB	2 x USB 3.0 Type-A 3 x USB 2.0 Type-A 1 x USB 2.0 Micro-B for RNDIS
Storage	32GB eMMC 5.1 1 x micro-SD card slot 1 x M.2 Key M 2280 for NVMe (PCIe Gen4x 4) 1 x SATA (Optional)
RS-485	1 x RS-485 (3-pin Euroblock)
CAN bus	1 x CAN bus with transceiver (3-pin Euroblock)
External Expansion	40 pins: 1 x UART, 2 x 12C, 1 x CAN (W/O transceiver), 5 x GPIO
DIP Switch Button	Auto power on enable/Disable FAN PWM on enable/Disable RS485 Terminal ON/OFF CAN Bus Terminal ON/OFF
Capture card support	2 x M.2 Key M 2280 (PCIe Gen2x 4) or 3x mPCIe Gen2 x1
Input Power	DCINJACK on board & ATX 4pin 54V/2.78A, 12~54V is recommended
Buttons	Power and Recovery (Power button with green LED)
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Chassis Dimension/ Weight	W: 170mm x L: 220mm Weight: 300g
Certifications	CE, FCC, KC

Expandability

Model	Host Interface	Video Interface	Max Input Resolution
CN311-H	M.2 M key 2280	1x HDMI	4Kp30 in-out
CN312SW	M.2 M key 2280	2x SDI	2Kp60 in - 1080p out
CN312MN	M.2 M key 2280	1x SDI; 1x HDMI	2Kp60 in (SDI) 1920 x 1200 p60 in (HDMI) - 1080p out

*All specifications are subject to change without prior notice.

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