



# D313AX

## Development system

### Overview

AVerMedia's D313AX development system equips an advanced system-on-module, NVIDIA® Jetson AGX Xavier™. Compute-intensive applications such as autonomous machines, robotics, manufacturing, logistics, retail, agriculture, and the smart city are where D313AX will shine.

This platform features heterogeneous accelerated computing for high-performance computing, integrated memory, storage, power management, and a thermal design that enables faster time-to-market.

AVerMedia supports businesses of all sizes and offers customizable BSP services, flexible MoQ, in addition to NVIDIA's JetPack™ SDK, which is used across the entire NVIDIA Jetson™ family of products..

### Key Features

- Equipped with the NVIDIA® Jetson AGX Xavier™ 32GB module
- Cooling system: Fan
- 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 RJ45, 2x USB 3.0, 2x 4Kp60 HDMI output
- 1 x CAN bus with transceiver
- 40 pins Expansion Header
- 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 x H: 54.6mm

### 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.,



#### Flexibility & Reliability

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.

As an NVIDIA® Elite Partner, our support-driven team offers prompt after-sales support so that your company stays focused on customer acquisition.



#### Dedicated After-Sales Support

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### Specifications

Model	D313AX
Type	Development system
NVIDIA GPU SoC Module	NVIDIA® Jetson AGX Xavier™ 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 output 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 Eurostyle terminal block)
CAN bus	1 x CAN bus with transceiver (3-pin Eurostyle terminal block)
Expansion Header	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 x H: 54.6mm Weight: 770g
Certifications	CE, FCC, KC
Package	1 x Carrier board 1 x NVIDIA Jetson AGX Xavier 32GB module 1 x Fan 2 x Pluggable terminal block Screws Quick Guide
Optional add-on	Adapter and power cord (US, UK, EU/KR, CN, JP, AU, TW)

All specifications are subject to change without prior notice.

