AVerMedia

Datasheet

NVIDIA ELITE PARTNER

D315AOP [Preliminary]

NVIDIA® Jetson AGX Orin 32G/64G module

For AMRs, Smart Security and Smart Inspection

Overview

AVerMedia's AI Box PC D315AOP equips powerful NVIDIA® Jetson AGX Orin 32G or 64G module. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities.

D315AOP is designed for the industry applications with spatial concern and feature a rich assortment of I/O ports for rapid AI-based solution development and seamless deployment as required by demanding business applications.

AVerMedia supports businesses of all sizes and offers customizable BSP services, flexible MoQ, in addition to NVIDIA's JetPack™ SDK.

Enterprise-Leading Features

- Fanless design to prevent dust accumulation
- 1x M.2. E key for Wi-Fi 6E
- 1x M.2. M key for SSD and capture
- 1x GbE & 1x 10G RJ-45
- 10GigE Vision camera connector
- 1x PCIe slot for multi-function expansion
- 1x mPCIe for 4G & 5G with adapter card
- Operating temperature: -25°C ~50°C (32G)
- Operating temperature: -25°C ~40°C (64G)
- Dimension (Fanless): 160*136.9*65mm

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.

https://www.avermedia.com/professional/

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D315AOP [Preliminary]

NVIDIA® Jetson AGX Orin 32G module

Specifications

Model	D315AOP (5G) 32G/64G
Type	Box PC
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson AGX Orin 32G/64G module
Networking	1x GbE RJ-45, 1x 10G RJ-45
Display Output	1x HDMI 2.0 (3840x2160 at 60Hz)
Temperature	Operating temperature -25°C ~50°C (32G) Operating temperature -25°C ~40°C (64G) Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
USB	1x USB 2.0 Micro-B for recovery 2x USB 2.0 Type-A 2x USB 3.2 Type-A
Audio	Intel HD Audio analog connector
Storage	1x micro-SD card slot
Expansion Header	• 40-pin (UART, SPI, CAN, I2C, I2S, GPIOs) • 1x mPCIe (for 4G LTE module or 5G module via adapter card) • 1x M.2 E Key (for Wi-Fi 6E) • 1x M.2 M key (for SSD or AVerMedia capture card:CN311-H, CN312SW, CN312MW) 、 1x Micro SIM socket • 1x PCIe x16 (only support x8 PCIe lanes) • 1x CAN bus with transceiver, 120-pin (for MIPI SerDes)
Power requirement	DC in jack on board: 54V/2.78A adapter, DC Range 12~54V (7~1.95A) ATX 4-pin: 12~54V (10.8~2.4A)
Power Cord	US/JP/EU/UK/TW/AU/CN
Thermal solution	Fanless solution
Buttons	Power and Recovery
RTC Battery	Support RTC Battery and Battery Life Monitoring by MCU
PCB/Electronics Mechanical Info	Dimension: 160*136.9*65mm Weight: 1.55KG
Certifications	CE, FCC, VCCI, KC
Package	1x D315AOP 1x Adapter 54V/2.78A and Power cord

Optional Accessories

Wi-Fi Module	M.2 E key 2230	Intel® Wireless-AC 9260 、 Intel® Wi-Fi 6E AX210		
SSD	M.2 M key 2280	256GB		
Capture Card	M.2 M key 2280	CN312MW	1x SDI; 1x HDMI	2Kp60 in (SDI), 1920 x 1200p60 in (HDMI), 1080p out
	M.2 M key 2280	CN312SW	2x SDI	2Kp60 in - 1080p out
	M.2 M key 2280	CN311-H	1x HDMI	4096 x 2160p30 in and out

RoHS 2 COMPLIANT

*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.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660