D115S Carrier Board [Preliminary]

- Applies to NVIDIA® Jetson Orin™ NX /Orin™ Nano series

- Support Super Mode

- For Smart Traffic, Smart Security and Smart City Applications

Overview

AVerMedia's D115S Carrier Board support powerful NVIDIA® Jetson Orin™ NX super/Orin™ Nano super/Orin NX/ Orin Nano modules. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities.

D115S 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

- Applies to NVIDIA® Jetson Orin NX/Orin Nano
- Supports super mode
- 2 x 4 Lane MIPI CSI-2 MIPI Camera input
- 2 x M.2. for WIFI and SSD and 1 x HDMI output
- 2 x GbE RJ-45 (Optional: Ethernet 1 supports PoE ; Ethernet 2 can be used for OOB management via NC-SI)
- 1 x OOB for Power cycling and Cloud serial console (Optional)
- 1 x 5G daughter board for 4G/5G/capture card functions (Optional)
- 20-pin expansion header
- Operating temperature: -40°C ~ 85°C
- Dimension: W: 126mm x L: 96mm (TBD)

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.

Specifications

Model	D115S
Type	Carrier board
NVIDIA Module Compatibility	NVIDIA® Jetson Orin™ NX super/Orin™ Nano super/Orin™ NX/ Orin™ Nano module
Super Mode	Support
Networking	• 2x GbE RJ-45 Optional: Ethernet 1 supports PoE* ; Ethernet 2 can be used for OOB management via NC-SI** • 1xM.2. key E 2230 for wifi
Display Output	1x HDMI 4Kp60
Temperature	Operating temperature -40°C~85°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
MIPI Camera Inputs	2x 4 lane MIPI CSI-2, 22-pin FPC 0.5mm Pitch Connector
USB	1x USB 2.0 type C for recovery 2x USB 3.2 Type-A (Native 10Gbps per port)
Storage	1x M.2. key M 2280 for NVMe
Expansion Header	• 20-pin: 2x I2C, 2x UART, 4x GPIOs, 1x CAN (EU terminal block)*** • 15-pin & 10-pin: Supports OOB management via OOB module (optional, sold separately) • 40-pin wafer: Supports 4G/5G/capture card functions via daughter board (optional, sold separately)
Security	TPM 2.0 Supported
Power requirement	DC in JACK on board & ATX 4-pin 12V/5A, 12V~24V is recommended.
Power Cord	US/JP/EU/UK/TW/AU/CN (optional)
Thermal Solution	Heat sink with fan (optional)
Buttons	Power and Recovery
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
PCB/Electronics Mechanical Info	W: 126mm (W) x 96mm (L) (TBD) Weight: 125g (TBD)
Certifications	CE, FCC,VCCI, KC
Package	1x D115S Carrier board Terminal blocks and screws

* For details, please refer to the "Accessory-PoE Board" webpage.
** For details, please refer to the "Accessory-OOB module" webpage. Ethernet 2 supports NC-SI for enabling Allxon OOB and In-Band functions simultaneously.
***When equipped with the OOB module, 2x UART will be unavailable.

*All specifications are subject to change without prior notice.

Optional Accessories

MIPI Camera	For 22pin MIPI connector: 1. raspberry pi imx219 &imx477 (V2) 2. Manufacturer: APPRO.PHO ■ B-04: IMX179 (8M) MIPI, 1080P (30fps)

Ordering Information

Model	SKU Number	Description
D115S	D115S-01	Applies to NVIDIA® Jetson Orin Super series.