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D115W Carrier Board

Applies to NVIDIA® Jetson Orin NX/Orin Nano module.

For Smart Retail, Smart Security and Smart City Applications



Overview

AVerMedia's AI Carrier board D115W applies to NVIDIA® Jetson Orin NX/Orin Nano module. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities.

D115W 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
- 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
- 20-pin expansion header
- Operating temperature: -40°C ~ 85°C
- Dimension: 120mm x 90mm(4.72" x 3.54")

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	D115W
Type	Carrier board
NVIDIA Module Compatibility	NVIDIA® Jetson Orin NX 16G/8G, Orin Nano 8G/4G module
Networking	<ul style="list-style-type: none"> • 2x GbE RJ-45 • Optional: Ethernet 1 supports PoE* • 1xM.2. key E 2230 for wifi
Display Output	1 x HDMI output 3840 x 2160 at 60Hz for Orin NX,30Hz for Orin Nano
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 3x USB 3.2 Type-A
Storage	1x M.2. key M 2280 for NVMe
Expansion Header	20-pin: 2x I2C, 2x UART, 4x GPIOs, 1xCAN (EU terminal block)
Power requirement	DC in JACK on board & ATX 4-pin 12V/5A, 9V~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
Dimensions	120mm x 90mm(4.72" x 3.54"), Weight: 125 g
Certifications	CE, FCC, KC
Package	1x D115W Carrier board Terminal blocks and screws

*For details, please refer to the "[Accessory-PoE Board](#)" webpage.

**Please contact your local sales for more information. All specifications are subject to change without prior notice.



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Optional Accessories

MIPI Camera	<p>For 22pin MIPI connector:</p> <ol style="list-style-type: none"> 1. Raspberry pi camera v2 /raspberry pi camera v3 2. Manufacturer: APPRO.PHO <ul style="list-style-type: none"> ▪ B-04: IMX179 (8M) MIPI, 1080P (30fps)
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Ordering Information

Model	SKU Number	Description
D115W	D115W-001	-
D115W (5G)	D115W-002	Support OOB/5G/capture card via OOB module and daughter board



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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.

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