D133 Carrier Board

Applies to NVIDIA® Jetson Orin NX/Orin Nano module

For Smart Traffic, Smart Security and Smart City Applications

Overview

AVerMedia's D133 Carrier Board support powerful NVIDIA® Jetson Orin NX/ Orin Nano modules. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities

D133 Carrier Board is designed for the industry applications with spatial concern and compact yet efficient 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 module
- 1 x HDMI output
- 1 x GbE & 2 x USB 3.2
- 2 x M.2 for SSD/wifi
- 20-pin expansion header
- Operating temperature: -40°C ~ 85°C
- Dimension: 90mm x 76mm (3.54" x 2.99")

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	D133
Type	Carrier Board
NVIDIA Module Compatibility	NVIDIA® Jetson Orin NX/ Orin Nano module
Networking	1 x GbE RJ-45 1 x M.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	2 x 4 lane MIPI CSI-2, 22 pin FPC 0.5mm Pitch
USB	1 x USB 2.0 type C for recovery 2 x USB 3.2 Type-A
Storage	1x M.2. key M 2280 for NVMe
Expansion Header	20 pins: 2x I2C, 1x UART, 9x GPIOs
Input Power	3.5mm Screw Terminal; 12V/5A, 9V~24V is recommended.
Power Cord	US/JP/EU/UK/TW/AU/CN (optional)
Thermal solution	Fan solution (optional)
Buttons	Power and Recovery
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
PCB/Electronics Mechanical Info	90mm x 76mm (3.54" x 2.99") W/O mounting hole Weight: 70g
Certifications	CE, FCC, KC
Package	1x D133 Carrier board DC IN jack cable screws

*For more detailed specification of OOB module, please check the "Accessory" page.
**All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT   *All specifications are subject to change without prior notice.

Optional Accessories

MIPI Camera	For 22pin MIPI connector: 1. Raspberry pi camera v2 /raspberry pi camera v3 2. Manufacturer: APPRO.PHO ■ B-04: IMX179 (8M) MIPI, 1080P (30fps)

Ordering Information

Model	SKU Number	Description
D133	D133-001	-
D133 (5G)	D133-002	Support OOB/5G/capture card via OOB module and daughter board