ON135B Box PC

Applies to NVIDIA® Jetson Orin Nano

For Vehicle and Surveillance Applications

Enterprise-Leading Features

AVerMedia's Box PC equips the incredibly small, yet power-efficient NVIDIA® Jetson Orin Nano module. This system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities.

It is designed for vehicle and surveillance applications and features a rich assortment of I/O ports for rapid AI development and 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

- Powered by NVIDIA® Jetson Orin Nano module
- 3x AHD/TVI/CVI (1080p, 720p, 960H)
- 2x GbE, 2x USB 3.0
- 3x RS232, 1x RS485, 2x CAN BUS
- 2x UART, 6x GPIO
- 2x M.2 (Wi-Fi/SSD), 2x mPCIe (GPS & 4G module)
- DC 9V~36V & ACC
- Operating temperature: 0˚C ~ 50˚C (TBD)
- Dimension: W: 160mm * L: 235mm * H: 70mm

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	ON135B
Type	BOX PC
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Orin Nano module
Networking	2x GbE RJ-45
Display Output	1x HDMI3840 x 2160 at 30Hz
Video Input	3x AHD/TVI/CVI Input (Max.1080P30), 16pin wafer with latch
Control I/O	3x RS232, DB9 Male 1x RS485, DB9 Male 2x CAN Bus with Isolated, 3.5mm Eurostyle terminal block 2x UART, 3.5mm Eurostyle terminal block 4x GPI with Isolated, 3.5mm Eurostyle terminal block 2x GPO with Isolated, 3.5mm Eurostyle terminal block
Audio	1x Mic in, 3.5mm phone jack 1x Line out, 3.5mm phone jack
USB	1x USB 2.0 Micro-B for recovery 2x USB 3.0 Type-A
Expansion IO (Internal)	1x M.2 key E for Wi-Fi module (optional) 1x M.2 key M for M2 SSD (256G SSD pre-installed) 1x half mPCIe (usb interface) or GPS (Ublox NEO-M8) (optional) 1x mPCIe for 4G module (optional)
Input Power	DC 9V-36V ATX-8P ACC/DC Output
Thermal solution	Fanless heatsink
Buttons	Power and Recovery
Indicator	5x LED Indicator for device status : PWR/ACC/GPS/Wi-Fi/SSD
Super capacitor	4x 30F/2.7V
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Temperature	Operating temperature 0°C~50°C (TBD) Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
Mechanical Info	W: 160mm * L: 235mm * H: 70mm
Package Include	• Box PC x1 (256G SSDx1, 64G Micro SDx1 included) • AHD cable x1 • Terminal block plug x2 • Screws

Optional Accessories

***All specifications are subject to change without prior notice.**

Wi-Fi Module	M.2. key E 2230	Intel® Wireless-AC 9260
4G LTE Module	mPCIe	SIM7600G-H

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