AVerAI NO135K Box PC

Preliminary

NO135K Box PC supports 4xAHD/TVI/CVI input, 2x GbE, 2xCAN, 3xR232, 1xRS485, DC 9V~36V
It equips NVIDIA® Jetson Nano module

Features

- Equips NVIDIA® Jetson Nano module
- 4x AHD/TVI/CVI (1080p, 720p, 960H)
- 2x GbE, 2x USB 3.0
- 3xRS232, 1xRS485, 2xCAN BUS, 2xUART, 6xGPIO, 1xIMU
- 1x4Kp60 HDMI output, 1xCVBS output
- 2xmicro-SD card slot
- 2xM.2. (wifi/SSD), 2xmPCIe (GPS & 4G module)
- Small UPS design for video saving
- DC 9V~36V & ACC
- Operating temperature: 0˚C ~ 65˚C
- Dimension: W: 160mm x L: 235mm x H: 70mm

Introduction

AVerMedia AVerAI Box PC NO135K equips NVIDIA® Jetson Nano module and is designed for the Vehicle and surveillance applications in the environment with the AHD/TVI/CVI camera. NO135K features four channels of AHD/TVI/CVI video inputs, so AI solution can be deployed easily and quickly into existing environment.

AVerAI NO135KB can provide the access to a list of rich I/O functions, which includes 4xAHD/TVI/CVI, 1x 4Kp60 HDMI output, 1xCVBS output, 2x USB 3.0, 2x GbE RJ-45, 2x Micro SD card slot, and 1x Micro-B USB 2.0 for recovery. It has multi expansion IO, like 2xM.2. (wifi/SSD) and 2xmPCIe (GPS & 4G module). It also has several control IO, which includes 3xRS232, 1x RS485, 2xCAN BUS, 2xUART, 6xGPIO, 1x IMU. Besides, It also design small UPS (supercapacitor) to enhance emergency recording as power cut. Especially, NO135K also design wide voltage 9V~36V and ACC for transportation filed.

With the 4 channels of AHD/TVI/CVI, design for existing field installation, and the rich expansion and control I/O functions, NO135KB is the best cost-effective choice for AIoT edge computing in the intelligent video analytics applications of Smart transportation, Smart surveillance, and Smart City.

Embedded Vision Solutions for NVIDIA Jetson

AVerMedia offers 3 categories of Embedded Vision Solutions for deep learning application on the edge devices, with the support of NVIDIA Jetson family, battery power, HDMI/VGA/3G-SDI/Composite video sources, and the direct technical support for developers.

- Standard and customized of Nano/TX2 NX/Tegra/Xavier NX/AGX Xavier carrier boards
- Standard and customized Nano/TX2 NX/Tegra/Xavier NX/AGX Xavier application-ready systems
- Software design service of Linux BSP, driver, OpenCV, VisionWorks, and cuDNN.

Why AVerMedia

- As NVIDIA® PREFERRED solution provider, AVerMedia gets the direct support from NVIDIA. We are able to offer technical support in 24 hours to help your project success.
- Support full range of NVIDIA Jetson modules, including Nano, TX2NX, Tegra, Xavier NX, and AGX Xavier.
- Support various video input sources from IP camera, USB camera, MIPI camera, and capture cards supporting HDMI/VGA/3G-SDI/Composite video sources.
- Provide customization services of HW, PCB, chassis, BSP, driver, and UX/UI/ID/ME design.
- Supports 65˚C/149˚F operating temperature in the No-Air-Flow environment for fanless system designed by using AVerCooler technologies.
- Provide flexible user-configured security to protect the SW.

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Specifications

Model	NO135K
Type	Box PC
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Nano module
Networking	2x GbE RJ-45
Display Output	1xHDMI, 3840 x 2160 at 60Hz 1xcomposite.
Video Input	4x 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	1xMic in, 3.5mm phone jack 1xLine out, 3.5mm phone jack
USB	1x USB 2.0 Micro-B for recovery 2x USB 3.0 Type-A
Storage	2x micro-SD card slot
Expansion IO (Internal)	1xM.2. key E for wifi module (AC9260) 1xM.2. key M for SSD/frame grabber/PoE module 1xhalf mPCIe (USB interface) for GPS (UBlox NEO-M8) (optional) 1xmPCIe for 4G module/frame grabber/PoE module
Input Power	DC 9V-36V ATX-8P ACC/DC Output
Power Cord	US/JP/EU/UK/TW
Thermal solution	Fanless
Buttons	Power and Recovery
Indicator	5x LED Indicator for device status, ex: PWR/ACC/GPS/Wifi/SSD
UPS (Supercapacitor)	4 x 30F/2.7V
IMU (optional)	6-Axis motion tracking
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Temperature	Operating temperature 0°C~65°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
PCB/Electronics Mechanical Info	W: 160mm x L: 235mm x H: 70mm
Certifications	CE, FCC

*All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

AVerMedia

Made in Taiwan
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