AVerMedia

NVIDIA PREFERRED SOLUTION PROVIDER

AVerAI EN713-AAE9 Box PC

EN713-AAE9-1PC0 Box PC provides 1x GbE and 8x 10/100 MbE with PoE (PSE)
It fully supports NVIDIA® Jetson Nano™ (version B01) module

AIoT, Home Robot, Smart Retail, Surveillance

Description

AVerMedia's AVerAI EN713-AAE9-1PC0 Box PC of NVIDIA® Jetson Nano™ (version B01) module is designed as an A.I. NVR (Network Video Recorder) for intelligent surveillance system.

This product provides 8-channel PoE (PSE) ports for IP cameras, a SATA port for storage, 1x mPCIe, 2x USB 3.0 , 1x microphone input, 1x speaker output, 1x RS-485 and 20-pin expansion header (I2C, UART,G-PIOs), 1x HDMI 2.0 out.

Benefiting from the Jetson Nano™ and DeepStream SDK, it can simultaneously decode and analyze 8-channel 1080p30 IP camera videos.

By using AVerCooler WaveFin technology, the latest edge computing module, NVIDIA® Jetson Nano™ (version B01) module, EN713-AAE9-1PC0 can operate in the environment up to 65°C without airflow.

AVerAI EN713-AAE9-1PC0 Box PC is designed as an application ready platform for multiple applications to improve the performance, flexibility and time to market. With EN713-AAE9-1PC0, software developers not only can deploy their deep learning software on this system but also can market their software in a Box PC as a complete solution. This can greatly help simplify the efforts and processes of the system integration in launching their A.I. solution into the market faster.

Features

- Fully support NVIDIA® Jetson Nano™ (version B01) module
- 8x 10/100 MbE with PoE
- 1x GbE, 2x USB 3.0, 1x 4Kp60 HDMI output
- 20 pins with 1x UART, 2x I2C, 5x GPIOs
- 1x RS-485 (3 pins), 1x Micro-B USB 2.0 for recovery
- 1x mPCIe (Host Interface: USB 2.0)
- Operating temperature: 0°C~65°C (without HDD, with No-Air-Flow)
- Compact fanless chassis with AVerCooler technology

Embedded Vision Solutions for NVIDIA Jetson

AVerMedia offers 3 categories of Embedded Vision Solutions for AI 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/Tegra/AGX Xavier/Xavier NX carrier boards.
- Standard and customized Nano/Tegra/AGX Xavier/Xavier NX 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, Tegra, 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

Type	Box PC
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Nano™ (version B01) module
Networking	1x GbE RJ-45 8x 10/100 MbE RJ-45 with PoE (Max for the first 4 ports is 15.4W and total power budget is 90W)
Display Output	1x HDMI 2.0a/b Type-A supports maximum resolution 3840x2160 at 60Hz
Temperature	Operating Temperature 0°C~65°C (without HDD, with No-Air-Flow) Storage Temperature -40°C ~ 85°C Relative Humidity 40 °C @ 95%, Non-Condensing
USB	1x USB 2.0 Micro-B for recovery 2x USB 3.0 Type-A (USB 3.2 Gen1 x 1)
Storage	16GB e.MMC v5.1
GPIO Expansion	1x 3.3V UART, 2x I2C, 5x GPIOs
RS-485	1x RS-485 Pluggable Terminal Block (3 pins)
SATA Rev. 3.1	1x SATA Rev. 3.1
Audio	1x Mic-in, 1x Speaker-out
User Expansion	1x mPCIe (IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO (Optional)) (Host Interface: USB 2.0)
Antenna	2x SMA female connector (Optional)
Input Power	54V/2.78A
Buttons	Power and Recovery Button (each with a RGB tri-color LED)
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Chassis Dimension/ Weightnfo	W:190mm x L:175mm x H:80mm (W:220 mm with mounting ears) Weight: 2.75 Kg
Certifications	CE, FCC

* All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

R-R-AVM-EN713-AAE9

R-R-AVM- EN713-AAE9
MSIP Class A Statement (Korea)
사용자안내문
이 기기는 업무용 환경에¼¬ 사용할 목적으로 적합성평가를 받은 기기로¼¬ 가정용 환경에¼¬ 사용하는 경우 전파간섭의 우려가 있습니다.
This equipment has been tested for compliance with the intended use in a commercial environment. If the equipment is used in a domestic environment, it may cause radio interference.
※ 사용자 안내문은 "업무용 방송통신기자재"에만 적용한다.
※ User's Guide applies only to "Commercial Broadcasting Communication Equipment".

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Type : Box PC
Model name : EN713-AAE9