AVerAI EN715 Carrier Board

**EN715 carrier board supports 3 x MIPI CSI-2, 2xUSB 3.0, 1xGbE and 1x4Kp60 HDMI-out
It fully supports NVIDIA® Jetson Nano™ (Version B01) / Xavier™ NX module**

Introduction

AVerMedia AVerAI carrier board EN715 is designed for NVIDIA® Jetson Nano™ (Version B01)/Xavier™ NX module and for the industry applications in the environment with the high physical space concern and operation in the temperature range from 0°C to 70°C. It features the very compact dimensions of 70.6mm (L) x 87mm (W) x 27.3mm (H), with four Ø 3.2 mounting holes for the highly reliable field installation.

AVerAI EN715 can provide the access to a list of rich I/O functions, which includes 2x 2 Lane MIPI CSI-2, 1x 4 Lane MIPI CSI-2 MIPI Camera Input, 1x 4Kp60 HDMI output, 2x USB 3.0, 1x GbE RJ-45, 20-pins Expansion header , 1x Micro SD card slot, and 1x Micro-B USB 2.0 for recovery. It also comes with a single-mold PCB terminal block module for the easy power connection.

With the compact dimensions, design for reliable field installation, and the rich I/O functions, EN715 is the best cost-effective choice for AIoT edge computing in the intelligent video analytics applications of Smart Retail, Smart Camera, Smart Medical and Smart City.

Features

• Fully support NVIDIA® Jetson Nano™ (Version B01)/Xavier™ NX module
• 1x GbE, 2x USB 3.0, 1x 4Kp60 HDMI outputs
• 2x 2 Lane MIPI CSI-2
• 1x 4 Lane MIPI CSI-2
• 20-pin Expansion header
• 1x micro-SD card slot
• Operating temperature: 0°C ~ 70°C
• Dimension: W:87mm x L:70.6mm x H: 27.3mm

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

Why AVerMedia

• As NVIDIA® ELITE partner, 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, 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 70°C/158°F operating temperature for fanless system.
• Provide flexible user-configured security to protect the SW.

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Specifications

Model	EN715
Type	Carrier Board
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Nano™ (Version B01)/Xavier™ NX module
Networking	1x GbE RJ-45
Display Output	3840 x 2160 at 60Hz
Temperature	Operating temperature 0°C~70°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
MIPI Camera Inputs	• 2x 2 lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector (Compatible on NVIDIA® Jetson Nano™ Developer Kit) • 1x 4 lane MIPI CSI-2, 36 pin FPC 0.5mm Pitch Connector
USB	1x USB 2.0 Micro-B for recovery 2x USB 3.0 Type-A
Storage	1x micro-SD card slot
Expansion Header	20 pins: 2x I2C, 1x UART, 9x GPIOs
Input Power	3.5mm Screw Terminal; 9V~19V is recommended.
Buttons	Power and Recovery
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
PCB/Electronics Mechanical Info	W: 87mm x L: 70.6mm x H: 27.3mm (3.43" x 2.78" x 1.07") Weight: 70g
Certifications	CE, FCC, KC

Optional Accessories

NVIDIA® Jetson Series	NVIDIA® Jetson Nano™ (Version B01)/Xavier™ NX module
Power Adaptor	12V, 5A
Power Cord	US/JP/EU/UK/TW
Fan Module	Heat sink with fan

MIPI Camera	For 15 pin MIPI connector:
	1.raspberry pi camera v2
	2.Manufacturer: APPRO.PHO
	    B-04: IMX179 (8M) MIPI, 1080P (30fps)
	    C-04: IMX290 (2M) MIPI, 1080P (30fps)
	    C-05: IMX290 (2M) +ISP (YUV), 1080P (30fps)
	For 36 pin MIPI connector:
	1.Manufacturer: APPRO.PHO
	  B-03: IMX334 (4K) MIPI, 4K (30fps)
	  A-06: IMX334 (4K) V-by-One® HS x1, 4K (30fps)

*All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

AVerMedia