



Datasheet



## EN715 Carrier Board

**NVIDIA® Jetson Xavier™ NX/ TX2 NX/NANO(Version B01) module**

For Smart Traffic, Smart Surveillance and Smart City Applications



### Overview

AVerMedia's AVerAI EN715 Carrier Board support powerful NVIDIA® Jetson Xavier™ NX/TX2 NX/NANO (Version B01) modules. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities

AVerAI EN715 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

- Support NVIDIA® Jetson Xavier™ NX/ TX2 NX /NANO (Version B01) module
- 1 x GbE
- 2 x USB 3.0
- 1 x 4Kp60 HDMI output
- 20-pin expansion header
- 1 x micro-SD card slot
- Operating temperature: 0°C ~ 60°C(depends on module and usage).
- Dimension: W: 87mm x L: 90mm

### The AVerMedia Advantage



#### Video Processing Technology

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.,



#### Flexibility & Reliability

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.



#### Dedicated After-Sales Support

The product images are for illustration purposes only and may not be an exact representation of the product.

[professional.avermedia.com](http://professional.avermedia.com)

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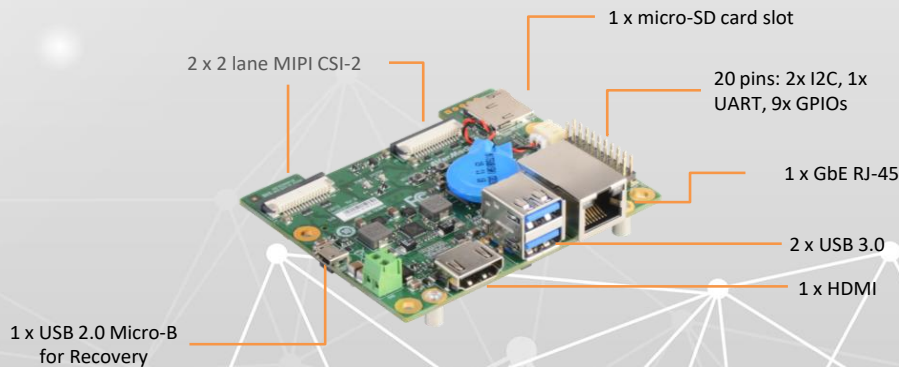
### Application

Powered by NVIDIA's Jetson SoM, this power efficient SoM enables AI calculations and predictions on the edge of the network for applications such as driver safety and cost efficiency relationships. An expansive amount of interface options are available supporting AHD, IP, MIPI, etc., and is suitable for multiple scenarios requiring camera flexibility. And for various locations of installment the fanless design combined with optimized thermal chassis ensures full loading through a large temperature range.

### AVerAI Ecosystem

We provide a rich ecosystem of partners to support your growth with the ability to help search for new business partners for your unique project. Our verified partner ecosystem maintains the highest level of experience and professionalism, while offering hardware, software and strategic services. No matter the size or level of experience, if you are looking to accelerate your growth, we have the resources to make it happen.

### Interface Diagram



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# AVerAI EN715 Carrier Board

## NVIDIA® Jetson Xavier™ NX/ TX2 NX/ NANO Version B01 module

### Specifications

|                                     |   |
|-------------------------------------|---|
| Model                               | EN715   |
| Type                                | Carrier Board   |
| NVIDIA GPU SoC Module Compatibility | NVIDIA® Jetson Nano™ (Version B01)/TX2 NX/ Xavier™ NX module  |
| Networking                          | 1 x GbE RJ-45   |
| Display Output                      | 1 x HDMI output 3840 x 2160 at 60Hz   |
| Temperature                         | Operating temperature 0°C~70°C<br>Storage temperature -40°C ~ 85°C<br>Relative humidity 40 °C @ 95%, Non-Condensing   |
| MIPI Camera Inputs                  | <ul style="list-style-type: none"> <li>2 x 2 lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector (Compatible on NVIDIA® Jetson Nano™ Developer Kit)</li> <li>1 x 4 lane MIPI CSI-2, 36 pin FPC 0.5mm Pitch Connector</li> </ul> |
| USB                                 | 1 x USB 2.0 Micro-B for recovery<br>2 x USB 3.0 Type-A  |
| Storage                             | 1 x micro-SD card slot  |
| Expansion Header                    | 20 pins: 2x I2C, 1x UART, 9x GPIOs  |
| Input Power                         | 3.5mm Screw Terminal; 12V/5A, 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: 70mm<br>Weight: 70g  |
| Certifications                      | CE, FCC, KC   |
| BSP                                 | 4.6 for NANO ready in July/2021<br>4.6 for Xavier NX/TX2 NX ready in Sep/2021   |
| Model                               | EN715   |
| Type                                | Carrier Board   |

### Optional Accessories

|             |   |
|-------------|---|
| MIPI Camera | For 15 pin MIPI connector: <ol style="list-style-type: none"> <li>raspberry pi camera v2</li> <li>Manufacturer: APPRO.PHO                     <ul style="list-style-type: none"> <li>B-04: IMX179 (8M) MIPI, 1080P (30fps)</li> <li>C-04: IMX290 (2M) MIPI, 1080P (30fps)</li> <li>C-05: IMX290 (2M) +ISP (YUV), 1080P (30fps)</li> </ul> </li> </ol> |
|             | For 36 pin MIPI connector: <ol style="list-style-type: none"> <li>Manufacturer: APPRO.PHO                     <ul style="list-style-type: none"> <li>B-03: IMX334 (4K) MIPI, 4K (30fps)</li> <li>A-06: IMX334 (4K) V-by-One® HS x1, 4K (30fps)</li> </ul> </li> </ol>   |

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



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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