



3639.00 EUR

incl. 19% VAT, plus [shipping](#)

- NVidia Jetson AGX !
- 64 GB !
- D317AO-002 !

AVerMedia Carrier Board D317AO support NVIDIA® Jetson AGX Orin , which brings next-level AI performance and power-efficient capability for all autonomous machines. This optional SoM makes advanced analytics possible while providing the ability to handle a host of other embedded IoT applications.

D317AO includes a 120-pin high-speed connector for connecting MIPI SerDes cameras, which can fulfill the demand for AMRs. In addition, a sufficient Ethernet bandwidth with 10G is excellent for applying smart security, enabling dozens of IP cameras to stream simultaneously. The connector for the 10GigE Vision Camera is also great for smart inspection. Lastly, with its compact size, D315 5G furnishes a PCIe slot for multi-function expansion and excellent compatibility with 5G and Wi-Fi 6.

- Embedded NVIDIA® Jetson AGX Orin module
- 1x GbE RJ-45
- 2x NVMe M.2 Key M 2280 (1x only support S1 Type Top side component SSD)
- 1x M.2 Key E 2230 for WIFI 6
- 1x HDMI 2.0 (3840x2160 at 60Hz)
- 1x 120pin for GMSL camera board
- 1x USB 3.2 Type-C for BSP install
- Optional: 2x 10G RJ-45 (via daughter board)
- Optional: 8x PoE (via daughter board)
- Optional: 1x M.2 Key B for 5G connection (via daughter board)
- Operating temperature: -40 to 85°C (carrier board) (TBD)
- Dimension: W: 92mm x L: 107mm (TBD)

NVIDIA GPU SoC Module  
Compatibility

NVIDIA® Jetson AGX Orin module (64GB)

|                                 |                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Networking                      | 1x GbE RJ-45                                                                                                                                                                                                                                                                                                              |
|                                 | 1 x M.2 key E 2230 for wifi 6                                                                                                                                                                                                                                                                                             |
|                                 | Optional 2x 10G RJ-45 (via daughter board) (TBD)                                                                                                                                                                                                                                                                          |
|                                 | Optional 8x PoE (via daughter board) (TBD)                                                                                                                                                                                                                                                                                |
|                                 | Optional 1x M.2 Key B for 5G connection (via 5G PoE/5G■USB/5G daughter board) (TBD)                                                                                                                                                                                                                                       |
| Display Output                  | 1 x HDMI output 3840 x 2160 at 60Hz<br>Operating temperature: -40 to 85°C (carrier board), -20 to 70°C (with fan) (TBD)                                                                                                                                                                                                   |
| Temperature                     | Storage temperature -40°C ~ 85°C (TBD)                                                                                                                                                                                                                                                                                    |
| Camera Inputs                   | Relative humidity 40 °C @ 95%, Non-Condensing                                                                                                                                                                                                                                                                             |
|                                 | 1x 120pin for GMSL camera board<br>1x USB 3.2 Type-C for BSP install                                                                                                                                                                                                                                                      |
| USB                             | (supports OTG mode,when using with PoE/5G daughter board or USB/5G daughter board ,the USB 3.2 OTG port becomes USB 2.0)                                                                                                                                                                                                  |
|                                 | 1x USB 3.2 Type-C (host mode only)                                                                                                                                                                                                                                                                                        |
| Storage                         | Optional 8x USB3.2 Type-A (via daughter board) (TBD)                                                                                                                                                                                                                                                                      |
|                                 | 2x NVMe M.2 Key M 2280 (1x only support S1 Type Top side component SSD)                                                                                                                                                                                                                                                   |
| TPM                             | Built in Infineon SLB 9672 TPM Chip                                                                                                                                                                                                                                                                                       |
| (Trusted Platform Module)       | <ul style="list-style-type: none"> <li>• 30pin header: 1xUART, 1xI2C, 3xGPIO,1xSPI, 2xCAN BUS, 1xI2S, 5V(Maximum 0.7A), 3.3V(Maximum 0.7A)</li> <li>•12pin header: 1x12V(Maximum 0.7A), 1x5V(Maximum 1A), 1x3.3V(Maximum 1A) power Output, 1xUSB 2.0, 1xDMIC</li> <li>•16pin wafer for OOB or External Button:</li> </ul> |
| Expansion Header                | -OOB: 1xUART, 1xDebug UART, 1xPower button, 1xReset button,                                                                                                                                                                                                                                                               |
|                                 | 1x Power detect (via out-of-band management module)                                                                                                                                                                                                                                                                       |
|                                 | -External Buttons: 1xPower Button, 1xReset button, 1xRecovery button,                                                                                                                                                                                                                                                     |
|                                 | 1xPWR_LED (via external button cable)                                                                                                                                                                                                                                                                                     |
| GPS                             | •40pin coaxial connector for 10G expansion                                                                                                                                                                                                                                                                                |
|                                 | •40pin coaxial connector for PCIe expansion                                                                                                                                                                                                                                                                               |
| Sensor                          | Optional Dual-RTK GNSS support (via daughter board)                                                                                                                                                                                                                                                                       |
| Power requirement               | Temperature sensor for PCB top/bot Temperature measure                                                                                                                                                                                                                                                                    |
| Thermal Solution                | Mini-Fit 4pin compatible ,12V +/- 5% DC Input                                                                                                                                                                                                                                                                             |
| RTC Battery                     | Fan solution (12V fan wafer)                                                                                                                                                                                                                                                                                              |
| PCB/Electronics Mechanical Info | Support RTC Battery and Battery Life Monitoring by MCU                                                                                                                                                                                                                                                                    |
|                                 | W: 92mm x L: 107mm (TBD)                                                                                                                                                                                                                                                                                                  |
| Certifications                  | •Weight: 1kg (TBD)                                                                                                                                                                                                                                                                                                        |
|                                 | CE, FCC, VCCI,KC                                                                                                                                                                                                                                                                                                          |