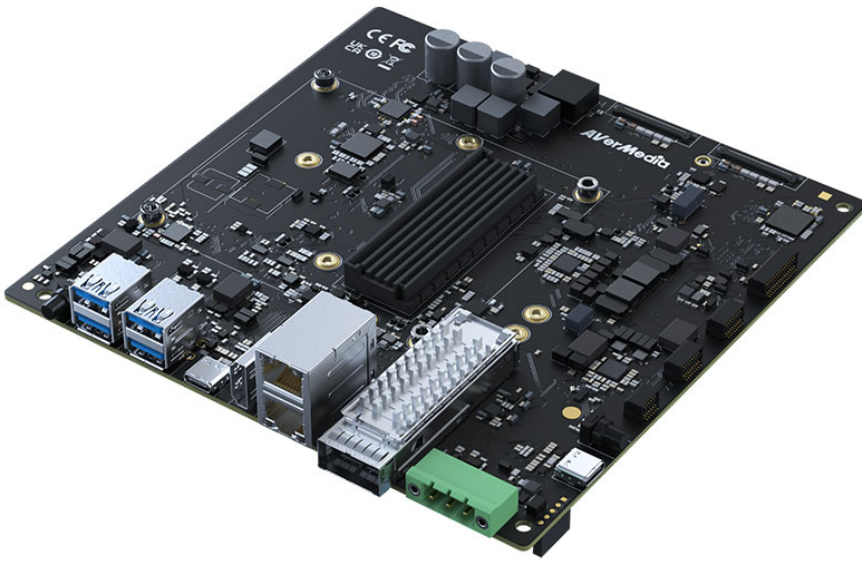


1389.00 EUR

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

- NVidia Jetson Thor !



AVerMedias carrier board D331 equips powerful NVIDIA Jetson T5000. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities.

D331 is designed for the industry applications with spatial concern and feature a rich assortment of I/O ports 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.

- Embedded NVIDIA Jetson T5000
- 2x GbE RJ-45
- 1x QSFP for 4x25GbE
- 1x M.2 Key E 2230 for WIFI 6
- 1x M.2 Key B 3350 for 4G/5G
- 2x M.2. key M 2280 for SSD
- 4x CAN BUS & 4 x PWM
- 1x HDMI 2.0 (3840x2160 at 60Hz)
- 1x 120pin for GMSL camera board
- 4x USB 3.2 Type-A
- 1x JTAG
- Optional 8x PoE & 8xUSB (via daughter board)
- Operating temperature: -40 to 85°C (carrier board)
- Dimension: W: 170mm x L: 170mm

**Model**

Type

NVIDIA Module Compatibility

**D331**

Carrier board

NVIDIA Jetson T5000

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Networking                      | <ul style="list-style-type: none"> <li>•2x GbE RJ-45 (OOB on board, one port is NCSI)</li> <li>•1x QSFP for 4x25GbE</li> <li>•1x M.2 key E 2230 for wifi 6</li> <li>•1x M.2 Key B for 5G</li> <li>1x HDMI output 3840 x 2160 at 60Hz</li> </ul>                                                                                                                                                                                                                                          |
| Display Output                  | <p>1x Type C DP mode</p> <p>2x HDMI output (Optional)</p> <ul style="list-style-type: none"> <li>•Operating temperature: -40 to 85°C (carrier board)</li> </ul>                                                                                                                                                                                                                                                                                                                          |
| Temperature                     | <ul style="list-style-type: none"> <li>•Storage temperature: -40°C to 85°C</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                    |
| Camera Inputs                   | <ul style="list-style-type: none"> <li>•Relative humidity: 40 °C @ 95%, Non-Condensing</li> <li>1x 120pin for GMSL camera board</li> <li>•1x USB 3.2 Type-C for BSP install (OTG)</li> </ul>                                                                                                                                                                                                                                                                                             |
| USB                             | <ul style="list-style-type: none"> <li>•4x USB 3.2 Type-A</li> <li>•Optional 8x USB3.2 Type-A (via daughter board)</li> </ul>                                                                                                                                                                                                                                                                                                                                                            |
| JTAG                            | 10pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Storage                         | 2x NVMe M.2 Key M 2280                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TPM                             | <p>TI SLB9672XU2.0 on board</p> <ul style="list-style-type: none"> <li>•30pin header: 1xUART, 1xI2C, 3xGPIO,1xSPI, 4xCAN 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 more GPIO &amp; External Button:</li> </ul> <p>OOB*: 1xUART, 1xDebug UART, 1xPower button, 1xReset button, 1x Power detect (via out-of-band management module)</p> |
| Expansion Header (TBD)          | <p>External Buttons: 1xPower Button, 1xReset button, 1xRecovery button</p> <p>1xPWR_LED (via external button cable)</p> <ul style="list-style-type: none"> <li>•16pin wafer : 4xPWM &amp; More GPIO</li> <li>•2x 40pin coaxial connector for PCIe expansion (daughter board 8xPoE/8xUSB )</li> </ul>                                                                                                                                                                                     |
| GPS                             | Optional Dual-RTK GNSS support (via daughter board)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sensor                          | Temperature sensor for PCB top/bot Temperature measure                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power requirement               | ATX 4pin & terminal block, 24~54V +/- 5% DC Input                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Thermal Solution                | Fan solution (12V fan wafer)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Buttons                         | Power and Recovery                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LED                             | 1x system power                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                 | 1x input power                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| RTC Battery                     | Support RTC battery and battery life monitoring by MCU                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PCB/Electronics Mechanical Info | W: 170mm x L: 170mm (TBD) Weight: 250g (TBD)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Certifications                  | CE, FCC, VCCI, KC (TBD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                 | 1x Carrier board                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Package                         | Screws                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                 | Nuts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |