**ORION T-7 is a compact edge computing platform powered by the NVIDIA® Jetson™ TX2 supercomputer-on-module, providing 256 CUDA® cores on the NVIDIA® Pascal™ architecture. It integrates most common components for edge computing applications including Cameras, SSD, SD card, LAN and WAN module. It is ideal for deployable computer vision and deep learning applications. Now you can bring AI to the edge to unlock the huge potential of Artificial Intelligence applications in all fields.**

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## FEATURES

- NVIDIA® Jetson™ TX2 High Performance AI Computer
- x6 SerDes Camera Port
- Gigabit Ethernet, WiFi, Bluetooth
- Support M.2 2280 SSD
- Support M.2 3042 LTE Module
- Built-in GPS Engine, Support Dead Reckoning
- Built-in 3-Axis Accelerometer
- Built-in 3-Axis Gyroscope
- WiFi, CAN, USB 3.0, RS-232, DI, HDMI

## APPLICATIONS

- Telematics
- Transportation
- Manufacturing
- Health care
- Retail
- Law Enforcement
- Security & Surveillance

## SPECIFICATIONS

| Power | |
|---|---|
| Power Supply | 9V ~ 40V DC Input |
| **SOM** | |
| MODEL | NVIDIA® Jetson™ TX2 |
| GPU | NVIDIA® Pascal™, 256 CUDA cores |
| CPU | HMP Dual Denver 2/2MB L2 +<br>Quad ARM™ A57/2MB L2 (Up to 2GHz) |
| Memory | 8GB 128-bit LPDDR4 |
| Storage | 32GB eMMC |
| **Peripheral** | |

| External Connectors | |
|---|---|
| 14-Pin Main Connector | BAT+, GND, ACC<br>4x Positive DI<br>1x CAN (CAN-H, CAN-L)<br>1x RS-232(GND, TX, RX) |
| External Antenna | 5x FAKRA Coaxial Connector: 2x LTE/3G Antenna<br>2x WiFi / Bluetooth Antenna<br>1x GNSS Antenna |
| SerDes Camera | 6x 4-Pin HSD Connector:<br>D+/D-: Twisted Pair SerDes (TI FPD-LINK III)<br>Power: 12V/GND |

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| | |
|---|---|
| Ethernet | 1x Gigabit Ethernet |
| WiFi | 1x 802.11b/g/n/ac 2x2 MIMO |
| Bluetooth | 1x Bluetooth 4.1 |
| USB | 1x USB3.0 |
| M.2 Extension Slot | 1x M.2 3042 Key-B Socket for LTE/3G Module<br>1x M.2 2280 Key-B Socket for SSD Module |
| SIM | 1x Micro SIM Slot |
| SD Card | 1x SD Card Slot |
| Display | 1x HDMI |
| Audio | 1x Output via HDMI |
| CAN | 1x CAN2.0b |
| IOs | 1x RS232 (TX/RX) 4x<br>Positive Digital Input |
| GNSS | Support GPS, BeiDou, Galileo, Glonass, Qzss |
| IMU | 3-Axis Accelerometer + 3-Axis Gyroscope |
| Supervisor | 1x 32-bit MCU (STM32F103) as System Supervisor |

| | |
|---|---|
| | |
| Mini USB Port | 2x USB COM Port:<br>1x NVIDIA® Jetson™ TX2 COM Port<br>1x MCU COM Port<br>1x NVIDIA® Jetson™ TX2 USB OTG Port |
| **Others** | |
| Dimension | 254mm (W) x 128mm (D) x 48mm (H) |
| Weight | 1.4 kg |
| Button | Power, Reset, Recover |
| LEDs | Red, Green, Yellow |
| Case | Aluminum, Black |
| Operating Temp. | -20°C to + 80°C |
| Storage Temp. | -40°C to + 90°C |
| Compliance | CE/FCC |
| Accessory | 1x 14-Pin cable with an automotive connector<br>6x SerDes Camera with cable up to 10 meters |

## CONTACT


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