



ORION T-7

AI platform at the Edge

Powered by  NVIDIA Jetson™ TX2

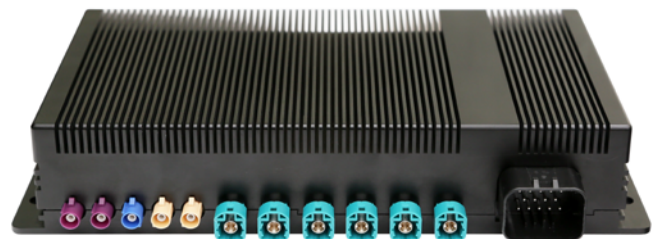
ORION T-7 is a compact edge computing platform powered by the NVIDIA® Jetson™ TX2 supercomputer-on-module, providing 256 CUDA® cores on the NVIDIA® Pascal™ architecture. It integrates most common components for edge computing applications including Cameras, SSD, SD card, LAN and WAN module. It is ideal 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.

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		External Connectors	
Power Supply	9V ~ 40V DC Input	14-Pin Main Connector	BAT+, GND, ACC 4x Positive DI 1x CAN (CAN-H, CAN-L) 1x RS-232(GND, TX, RX)
SOM		External Antenna	5x FAKRA Coaxial Connector: 2x LTE/3G Antenna 2x WiFi / Bluetooth Antenna 1x GNSS Antenna
MODEL	NVIDIA® Jetson™ TX2	SerDes Camera	6x 4-Pin HSD Connector: D+/D-: Twisted Pair SerDes (TI FPD-LINK III) Power: 12V/GND
GPU	NVIDIA® Pascal™, 256 CUDA cores	Mini USB Port	2x USB COM Port: 1x NVIDIA® Jetson™ TX2 COM Port 1x MCU COM Port 1x NVIDIA® Jetson™ TX2 USB OTG Port
CPU	HMP Dual Denver 2/2MB L2 + Quad ARM™ A57/2MB L2 (Up to 2GHz)	Others	
Memory	8GB 128-bit LPDDR4	Dimension	254mm (W) x 128mm (D) x 48mm (H)
Storage	32GB eMMC	Weight	1.4 kg
Peripheral		Button	Power, Reset, Recover
Ethernet	1x Gigabit Ethernet	LEDs	Red, Green, Yellow
WiFi	1x 802.11b/g/n/ac 2x2 MIMO	Case	Aluminum, Black
Bluetooth	1x Bluetooth 4.1	Operating Temp.	-20°C to + 80°C
USB	1x USB3.0	Storage Temp.	-40°C to + 90°C
M.2 Extension Slot	1x M.2 3042 Key-B Socket for LTE/3G Module 1x M.2 2280 Key-B Socket for SSD Module	Compliance	CE/FCC
SIM	1x Micro SIM Slot	Accessory	1x 14-Pin cable with an automotive connector 6x SerDes Camera with cable up to 10 meters
SD Card	1x SD Card Slot		
Display	1x HDMI		
Audio	1x Output via HDMI		
CAN	1x CAN2.0b		
IOs	1x RS232 (TX/RX) 4x 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		