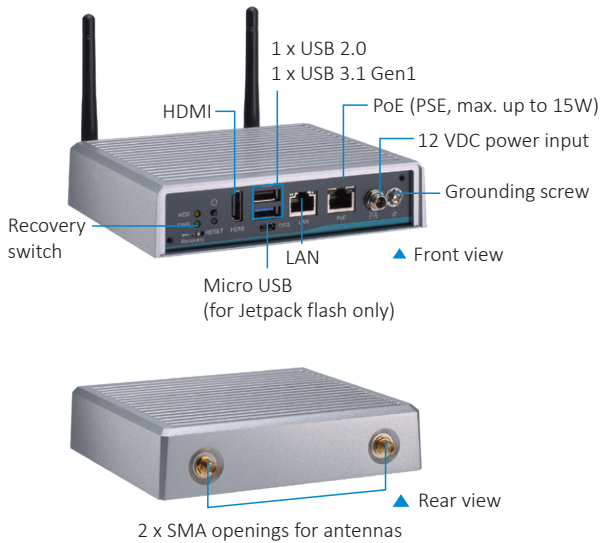# AIE100-T2NX

Fanless Edge AI System with NVIDIA® Jetson™ TX2 NX SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE and 2 USB, Remote Management Service Empowered by Allxon

NVIDIA PREFERRED PARTNER

1 x USB 2.0
1 x USB 3.1 Gen1

HDMI

PoE (PSE, max. up to 15W)

12 VDC power input

Grounding screw

Recovery switch

LAN

▲ Front view

Micro USB
(for Jetpack flash only)

▲ Rear view

2 x SMA openings for antennas

Features

- NVIDIA® Jetson™ TX2 NX, 256-core NVIDIA Pascal™ GPU
- High AI computing performance for GPU-accelerated processing
- Ideal for edge AI smart city applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -30°C to +60°C
- JetPack supported
- Supports 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

NVIDIA® Jetson™ TX2 NX available through to 2026*
The official end of life notice will be sent for at least 8 months before the last shipment.

| IP42 | Fanless | LPDDR4 | 4K Ultra HD | 12VDC | Jetson TX2 NX | Allxon DMS |

Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40 (IP42 by optional cover kit)
AI Accelerator	NVIDIA® Jetson™ TX2 NX
CPU	Dual-Core NVIDIA Denver 2 64-Bit CPU and Quad-Core Arm® Cortex®-A57 MPCore processor
GPU	256-core NVIDIA Pascal™ GPU
System Memory	4GB 128-bit LPDDR4 51.2GB/s
Carrier Board	SBC87903
System I/O Outlet	1 x HDMI 2.0 with 4K2K supported 1 x 10/100/1000 Mbps Ethernet (via Jetson™ TX2 NX) 1 x 10/100/1000 Mbps PoE (Intel® i210-IT; max. up to 15W) 1 x USB 3.1 Gen1, 1 x USB 2.0 1 x Micro USB 1 x Recovery switch 1 x Reset button 1 x Power button 1 x 12 VDC power input connector 2 x SMA-type antenna connector
Watchdog Timer	Built-in TX2 NX
Storage	Onboard 16GB eMMC (via Jetson™ TX2 NX) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot *The bootable device supported by eMMC only
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x SIM slot
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for M.2 storage
Power Supply	12 VDC screw type
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Humidity	10%- 95%, non-condensing
Vibration Endurance	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)

Specifications

Dimensions	148.6 mm (5.85") (W) x 129.8 mm (5.11") (D) x 34.6 mm (1.36") (H)
Weight (net/gross)	1 kg (2.20 lb)/1.6 kg (3.52 lb)
Certifications	CE, FCC Class A
OS Support	Linux Ubuntu 18.04

Remote Management Enrollment

Enroll in 24/7 secure service to get full feature of remote device management on one centralized cloud portal – Allxon Portal

*Enrollment Page: https://allxon.com/jetson/device_enroll/

Packing List

1 x Screw pack
4 x Foot pad

Power Protection

DC Adapter
OVP (over voltage protection)
OCP (over current protection)
UVP (under voltage protection)
SCP (short circuit protection)

Ordering Information

Standard

AIE100-T2NX	Fanless edge AI system with NVIDIA® Jetson™ TX2 NX SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE and 2 USB

Optional

8817H1003A0E	Wall mount kit
8817H1001A0E	DIN-rail kit
8817H1006A0E	VESA mount kit
8817H1002A0E	IP42 cover kit
M.2 NVMe SSD 128GB or above	
LTE module	
Wi-Fi module	
Power cord	
50966124050E	12V/60W adapter

* Specifications and certifications may vary based on different requirements.

Dimensions

IP SYSTEMES
8 rue du Colonel Chambonnet – BP67
69672 BRON Cedex
Tel. : 04 72 14 18 00
Fax : 04 72 14 18 01
www.ip-systemes.com – info@ip-systemes.fr