



- **Ultra-compact AI Edge Inference System**
- **Nvidia Jetson Orin NX**
- **Linux OS with BSP (Board Support Pkg)**
- **100 & 70 TOPS AI Performance**
- **Supports Deep Learning (DL) trained models**
- **Fanless with wide operating temperature**

## Introduction

The TI-TCOX is a fast, power-efficient embedded AI computing device. An ARM-based system that integrates the NVIDIA® Jetson™ Orin NX system-level module processor, it provides up to 100/70 trillion operations per second (TOPS) bringing true AI computing at the edge.

The system features 16GB/8GB LPDDR5 memory, 8K/4K video decoding/encoding, 2 x Gb Ethernet, multiple I/O's and low power consumption. Ultra-compact size, wall-mount brackets, fanless design and wide operating temperatures make it ideal for harsh environments.

## Specifications

### TI-TCOX16

### TI-TCOX8

CPU	NVIDIA Jetson Orin NX 16GB 8-core Arm® Cortex®-A784E v8.2 64-bit CPU 2MB L2 + 4MB L3	NVIDIA Jetson Orin NX 8GB 6-core Arm® Cortex®-A784E v8.2 64-bit CPU 1.5MB L2 + 4MB L3
GPU	Orin NX 16GB: Maximum Operating Frequency 918 MHz 1024-core NVIDIA Ampere architecture GPU with 32 tensor cores	Orin NX 8GB: Maximum Operating Frequency 765 MHz 1024-core NVIDIA Ampere architecture GPU with 32 tensor cores
Memory	16GB LPDDR5	8GB LPDDR5
Storage	256GB NVMe SSD	
AI Performance	100 TOPS	70 TOPS
Ethernet	1 x Gigabit Ethernet (RJ45) 1 x 10/100 Ethernet (RJ45)	
I/O	1 x USB 2.0 Micro-B 1 x USB 3.1 Gen1 1 x Micro HDMI 2 x GPIO (DO) 1 x PWM (0-10V)	
Buttons	Power Reset Recovery	
OS	Linux with BSP	
Power	DC 12-19V	
Power Budget	Max: 85.6 W / Typ: 35.5 W	Max: 80 W / Typ: 30 W
Op Temp	-20° C to 60°C	
Dimensions	118 x 90 x 71 mm	
Weight	750 g	