



## Main Features

- ♦ 157 TOPS computing power with NVIDIA® Jetson Orin™ NX
- ♦ Supports multiple AI frameworks including TensorFlow, Caffe, and PyTorch
- ♦ Compatible with various AI tools such as TensorRT and DeepStream SDK
- ♦ Supports 8-way PoE+ network ports, expandable to 5G, 4G, and Wi-Fi
- ♦ Fanless embedded design, -10°C to 55°C wide temperature operation, DC 48V input, rich I/O interfaces, supports wall hanging and rail installation

## Product Overview

Coeus 3808P is a fan-less design box pc with NVIDIA® Jetson Orin™ NX module. It support POE x 8 and Accelerated computing of up to 157 teraflops provides sufficient performance to allow users to parallelize multiple modern neural networks and process data from multiple high-resolution sensors to meet the needs of complete artificial intelligence systems.

For real-time, our NexRTOS + IGH can help you to develop EtherCAT Master application and control Servo drive/motor & Distributed I/O in real time. This is a very ideal solution that can quickly produce artificial intelligence product prototypes and accelerate the time to market.

## AI environment

- ♦ Ubuntu 20.04
- ♦ CUDA Toolkit
- ♦ cuDNN
- ♦ Multimedia
- ♦ VisionWorks
- ♦ OpenCV
- ♦ TensorRT
- ♦ VPI on target
- ♦ DeepStream
- ♦ Container Runtime

## Specifications

### CPU Support

- ♦ 16GB: 8-core NVIDIA® Arm® Cortex-A78AE v8.2 64-bit CPU (2MB L2 + 4MB L3)

### GPU

- ♦ 1024-core NVIDIA® Ampere GPU with 32 Tensor Cores

### DL Accelerator

- ♦ 2 × NVDLA Engines

### Vision Accelerator

- ♦ 1 × PVA v2

### Memory

- ♦ 16GB: 16GB LPDDR5

### Storage

- ♦ 128GB SSD

### I/O Interface-Front

- ♦ 2 × USB3.0

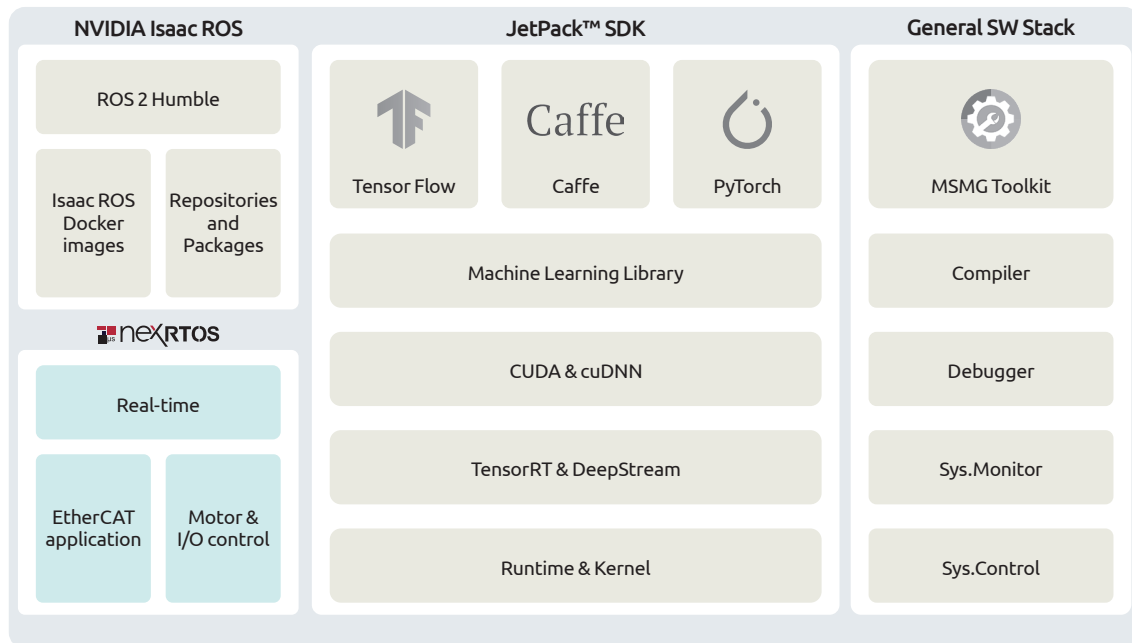
- ♦ 2 × RJ45LAN
- ♦ 8 × RJ45 100M PoE+ network ports, IEEE802.3at, Single port 30W
- ♦ 1 × HDMI
- ♦ 1 × SYS indicator light
- ♦ 1 × PWR indicator light
- ♦ 1 × Line Out
- ♦ 1 × Power switch
- ♦ 2 × Antenna reservation

### I/O Interface-Rear

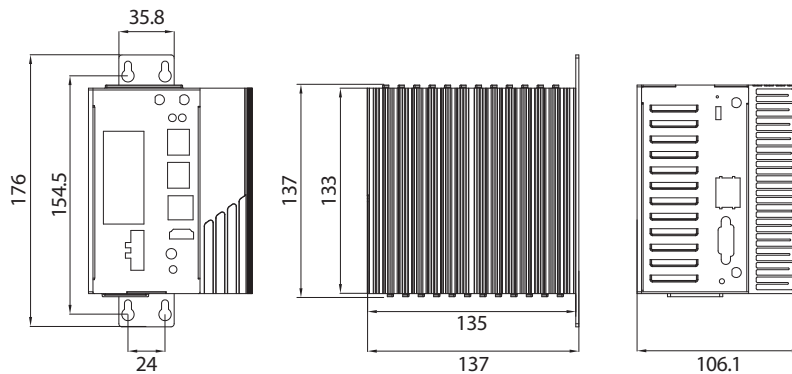
- ♦ 1 × Power connector
- ♦ 1 × GPIO (4DI & 4DO)
- ♦ 2 × COM (Non-full signal, 1\*DB9 form lead, COM1 RS-232/422/485; COM2 RS-232)
- ♦ 1 × OTG
- ♦ 1 × Recovery
- ♦ 1 × Ground screw hole



## Software Application Service



## Dimension Drawing



### Expansion

- 1 × Micro SD
- 1 × M.2 M Key 2280
- 1 × M.2 B Key 3052 support 5G, 4G modules
- 1 × miniPCIe Full-size slot with mSATA support

### Power Requirement

- DC 48V

### Dimensions

- 106.1mm (W) x 137mm (D) x 176mm (H)

### Installation

- wall-mounting and rail installation

### Operating temperature

- -10°C to 55°C with air flow

### Storage temperature

- -20°C to 80°C

### Working humidity

- 40°C, 95% no condensation

## Ordering Information

### ♦ Coeus 3808P-16G (P/N: 10C20380800XR)

NVIDIA® Jetson Orin™ NX-16GB, 2 x LAN, 1 x HDMI, 8 x POE, 1 x Lin out, 4 x DI, 4 x DO, 1 x RS232, 1 x RS232/422/485, 1 x OTG & 128GB SSD (OS Pre-installed)