



Main Features

- ❶ 157 TOPS computing power with NVIDIA® Jetson Orin™ NX❶ Supports multiple AI frameworks including TensorFlow, Caffe, and PyTorch
- ❶ Compatible with various AI tools such as TensorRT and DeepStream SDK
- ❶ Supports 4-way PoE+ network ports, expandable to 5G, 4G, and Wi-Fi
- ❶ 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 3804P is a fan-less design box pc with NVIDIA® Jetson Orin™ NX module. It support POE x 4 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

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

Specifications

CPU Support

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

GPU

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

DL Accelerator

- ❶ 2 × NVDLA Engines

Vision Accelerator

- ❶ 1 × PVA v2

Memory

- ❶ 16GB: 16GB LPDDR5

Storage

- ❶ 128GB SSD

I/O Interface-Front

- ❶ 2 × USB3.0

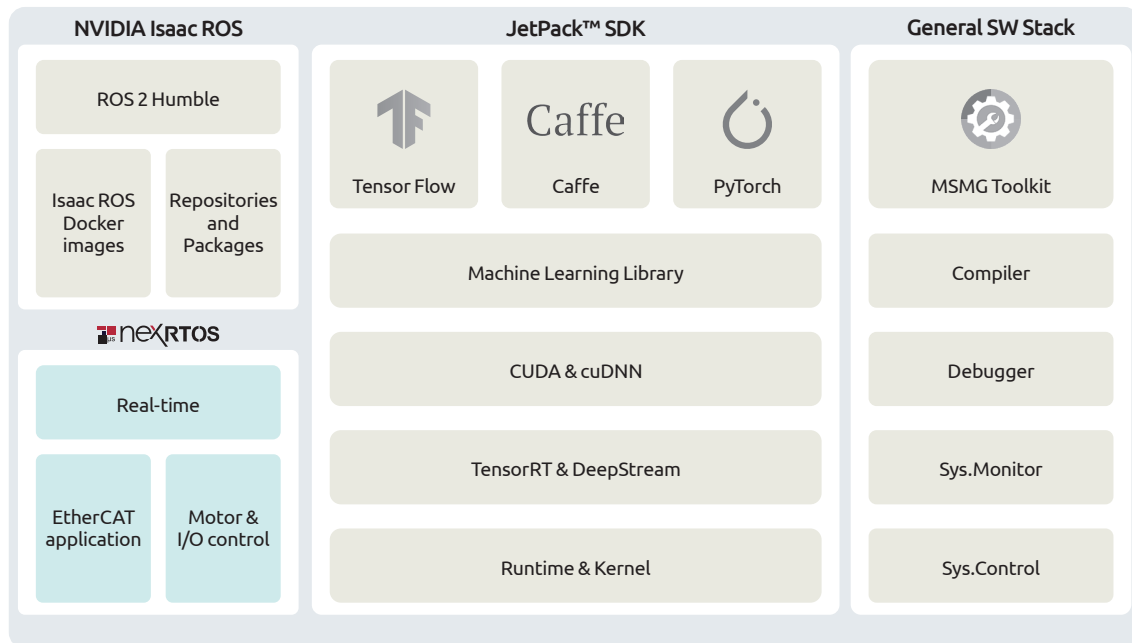
- ❶ 2 × RJ45LAN
- ❶ 4 × RJ45 100M PoE+ network ports, IEEE802.3at, Single port 30W
- ❶ 1 × HDMI
- ❶ 1 × SYS indicator light
- ❶ 1 × PWR indicator light
- ❶ 1 × Line Out
- ❶ 1 × Power switch
- ❶ 2 × Antenna reservation

I/O Interface-Rear

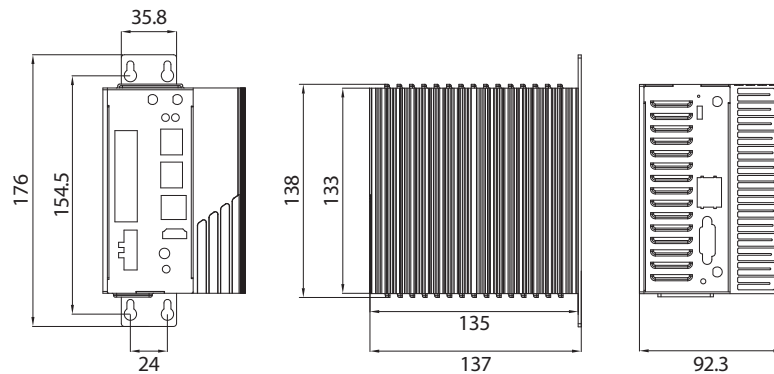
- ❶ 1 × Power connector
- ❶ 1 × GPIO (4DI & 4DO)
- ❶ 2 × COM (Non-full signal, 1*DB9 form lead, COM1 RS-232/422/485; COM2 RS-232)
- ❶ 1 × OTG
- ❶ 1 × Recovery
- ❶ 1 × Ground screw hole



Software Application Service



Dimension Drawing



Expansion

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

Power Requirement

- ❶ DC 48V

Dimensions

- ❶ 92.3mm (W) x 137mm (D) x 176mm (H)

Installation

- ❶ wall-mounting and rail installation

Operating temperature

- ❶ -10°C to 55°C with air flow

Storage temperature

- ❶ -20°C to 80°C

Working humidity

- ❶ 40°C, 95% no condensation

Ordering Information

❶ Coeus 3804P-16G (P/N: 10C20380400XR)

NVIDIA® Jetson Orin™ NX-16GB, 2 x LAN, 1 x HDMI, 4 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)