



Connect Tech Inc.
Embedded Computing Experts

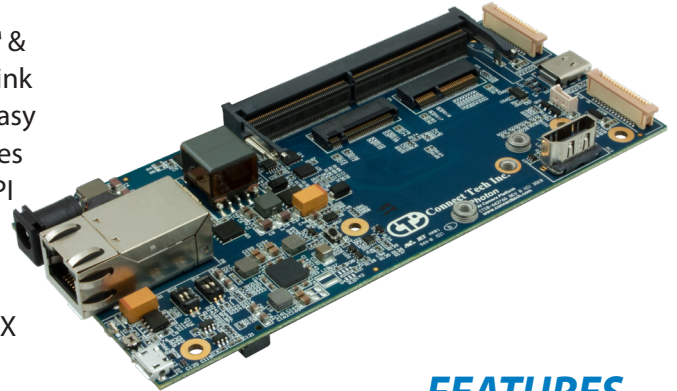
Photon - Jetson AI Camera Platform

Connect Tech's Photon is a Jetson AI Camera Platform specifically designed to support smart camera applications. This Jetson Nano™ & Jetson Xavier NX™ platform provides a PoE PD Gigabit Ethernet uplink for data and power and has various I/O connectors positioned for easy packaging into off the shelf camera housings. Additional key features include expansion for Wifi/BT, Cellular and NVMe as well as dual MIPI (stereo) inputs.

For applications that don't require PoE PD ask for our lower cost options. Let Connect Tech take your Jetson Nano or Jetson Xavier NX solution to a commercially deployable platform today.

Jetson AI Camera Platform PHOTON

Product Name: Photon - AI Camera Platform
Part Number: NGX002, NGX003



FEATURES

- ✓ *PoE PD (NGX002) capable, power via separate input or over Ethernet (IEEE 802.3af-2003 and IEEE 802.3at-2009 compatible)*
- ✓ *1 x GbE, 1x NVMe (M.2 M-Key). 1 microSD, 4x GPIO, I2C, USB Console/UART, US OTG for programming*
- ✓ *DC barrel power input also available*
- ✓ *Dimensions: 145mm x 64.5mm (5.7" x 2.53")*

| Specifications | |
|--|---|
| Compatibility | NVIDIA Jetson Nano, NVIDIA Jetson Xavier NX |
| Dimensions | 145mm x 64.5mm |
| Front IO (Camera End) USB | 1x USB 3.0 (Connector: USB Type-C) |
| Front IO (Camera End) MIPI Camera Inputs | 2x 2-lane MIPI CSI-2 - 15-pin FPC 1mm Pitch Connector - Same MIPI connector used on Nano Dev Kit |
| Front IO (Camera End) Camera MISC Interface | 1x I2C (Can be used for Lens Control) 4x GPIO (Can be used for Additional Camera Control) 1x Power Output (Can be used for IR LEDs) |
| Internal IO Display Output | 1x HDMI (Type-A Vertical) |
| Internal IO Fan | 1x 4-pin PWM Fan Connector |
| Rear IO - Ethernet | 1x 1000BASE-T Uplink PoE IEEE 802.3af-2003 (15.4W) PD PoE+ IEEE 802.3at-2009 (25.5W) PD Capable of operating on either network Lower-cost PoE Bypass Option Available |
| Rear IO - USB OTG | 1x USB 2.0 OTG for Flashing Capability (Micro USB) |
| Rear IO - USB UART | 1x USB FTDI UART (Micro USB) - Console Debug |
| Rear IO - Power Input | 1x 2mm DC Barrel Jack +12V DC Input |
| Rear IO - User Feedback | 1x RGB LED I2C controlled |
| Rear IO - Button | Dual RESET + FLASH Enable Functionality |
| Storage | 1x SD Card Slot 1x NVMe (M.2 M-KEY) |
| Wireless Expansion | 1x WiFi Module (M.2 2230 E-KEY) 1x LTE Module (M.2 2242 B-KEY) w/ SIM Card Slot |
| Operating Temperature | -25°C to +85°C |
| Warranty and Support | 1 Year Warranty and Free Support |

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