NEON-i1000 Series

NVIDIA® Jetson™ TX2-based industrial AI camera family for the Edge

Features

- A camera family that support NVIDIA® Jetson™ TX2 for Deep Learning inference
- Support 4 type image sensors
- 4x digital I/O, 1x com and 1x Lan
- 1x Micro SD slot for external storage
- Support C mount Lens

Introduction

ADLINK's NEON-i1000 Series is an industrial camera family that support NVIDIA® Jetson™ TX2 and a series image sensors that provide users the flexibility to cover many different applications.

The NEON-i1000 Series integrates the rich I/O such as 4x Digital input, 4x Digital out, 1x communication port, 1x Lan port and 1x Type C for display and USB in a compact chassis which is easy to install, deploy and save the effort on cabling.

Ordering Information

- **NEON-i101B**
  NVIDIA® Jetson™ TX2, color, 1.2M 54fps, global shutter
- **NEON-i102B**
  NVIDIA® Jetson™ TX2, color, 1.9M 60fps, global shutter
- **NEON-i103B**
  NVIDIA® Jetson™ TX2, color, 2M 30fps, rolling shutter
- **NEON-i104B**
  NVIDIA® Jetson™ TX2, color, 5M 14fps, rolling shutter

Software Support

- Ubuntu 18.04
- Jetpack 4.2.1

Accessory

- DB 15 to 37 DI/O cable
- Type C hub
- DIN37 I/O extension board
- 12V DC adapter

Specifications

Model Name	NEON-i101B	NEON-i102B	NEON-i103B	NEON-i104B
Processor	NVIDIA® Jetson™ TX2			
Display output	Display port from Type C, 1920x1080 @ 30fps			
Ethernet	1x GbE			
image Sensor resolution	1280x960	1600x1200	1920x1080	2592x1944
image Sensor size	1/3"	1/1.8"	1/3.7"	1/2.5"
frame rate(Frame per Second)	54fps	60fps	30fps	14fps
shutter	Global Shutter	Global Shutter	Rolling Shutter	Rolling Shutter
Color/Mono	Color	Color	Color	Color
Image sensor Trigger mode	External trigger, software trigger, free run			
Digital input	4x DI, include 1x sensor trigger			
Digital Output	4x DO, include 1x strobe out			
UART	TXD,RXD,GND			
Dimension	123.4x 77.57x 72.2(mm)			
Power supply	Either From DC Jeck: 12VDC/48W or from Type C connector: 15V/45W,9V/27W			
Operating Temperature	0˚C to 45˚C			
USB	1x USB OTG port; 1xUSB3 and 1xUSB2 from Type C connector