PCIE-GIEIMX

Intel® Movidius™ Myriad™-based GigE AI Frame Grabber

Features

- 4CH PCI Express® GigE Vision PoE+ Frame Grabbers
- PCI Express® Gen 2 x4 compliant
- PoE protection and automated PoE power budget control for enhanced asset protection
- Up to 20/60W PoE power from PCIe bus/4-pin Molex connector
- Up to 4x Intel® Movidius™ Myriad™ X VPU
- Support for Intel's OpenVINO™ toolkit

Preliminary

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Introduction

ADLINK's PCIe-GIEIMX features advanced Intel® Myriad™X VPU in a PCI Express® PoE+ frame grabber based on the Neural Compute Engine - a dedicated hardware accelerator for deep neural network inferences. The Neural Compute Engine, in conjunction with 16 powerful SHAVE cores and an ultra-high throughput intelligent memory fabric makes the Myriad X-equipped PCIe-GIEIMX the industry leading AI-enabled frame grabber for on-device deep neural networks and machine vision applications. In addition to the benefits of Intel's Myriad™ X VPU, the PCIe-GIEIMX has received additional upgrades to imaging and vision engines including additional programmable SHAVE cores, upgraded and expanded vision accelerators, and a new native 4K ISP pipeline with support for up to 8 HD sensors connecting directly to the VPU. The PCIe-GIEIMX delivers superior performance and evolve your existing machine vision applications to AI-enablement right away with no need to replace existing hardware. Unique alliances with leading AI brands allow ADLINK access to valuable native support for the most advanced technology, shortest time to market, and maximum reliability.

PCIe-GIEIMX supports 4CH independent Gigabit Ethernet ports for multiple GigE Vision connections transferring up to 1 Gb/s per port. PoE+ provides up to 30W power and automatic detection for stable, reliable connections, reduced costs, simplified installation, and lightened maintenance burdens.

Software Support

- **OS Information**
  Windows® 7/10 & Linux

Ordering Information

- **PCIe-GIEIMX**
  4CH PCI Express® Intel® Movidius™ Myriad™-based GigE AI frame grabber

Specifications

Model Name	PCIe-GIEIMX
Main Chip	Intel® Movidius™ Myriad™ X MA2485 VPU
Form Factor	PCI Express® x4
Ethernet Port	4 fully-integrated Gigabit Ethernet Media Access Control (MAC) and physical layer (PHY) ports
	PoE+ (Power over Ethernet Plus), IEEE 802.3at compliant, supporting 0, 1, 2, 3, and 4, providing up to 30W
	9 kB jumbo frame support
Functions	PoE Power Management
	Link Aggregation, IEEE 1588 (PTP technology)
	Multiple cards and multiple cameras
	PoE Protection
	PoE Power Management
Operating Environment	60W PoE: 0˚C to +50˚C (32˚F to 122˚F)
	Humidity: 5% to 90% RHNC
Power Requirements	+3.3V max @ 3A [1][2]
Dimensions	167.6 mm x 106.6 mm (6.6" x 4.2") (W x L)

Note:
(1) Max 61.6W PoE power w/ ether 4-pin (+12V@6A).
(2) Max 20W PoE power w/ PCIe slot (+12V@2.1A).

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