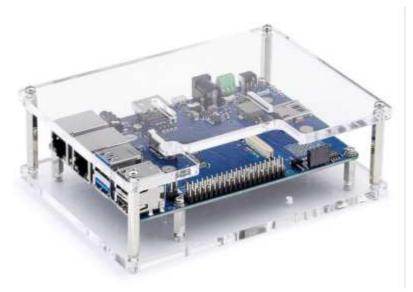## Industrial Machine Vision AI Development Kit

Easily connect, design, deploy and improve applications to harness insight from vision data

"Vizi-AI™ combines plug and play hardware and software enabling a faster, easier and scalable starting point for machine vision AI deployments at the edge. This can then be scaled for industrial requirements using the same software but deployed on more powerful hardware as needed."

ADLINK's Vizi-AI devkit provides enterprise developers and data scientists with an ideal starting point to find business value from machine vision AI at the edge by enabling easy deployment of their machine learning models.

The Vizi-AI devkit includes:

- Intel Atom® based SMARC computer module with Intel® Movidius™ Myriad™ X VPU which features the Neural Compute Engine - a dedicated hardware accelerator for on-device deep neural networks and computer vision applications.

- 40 pin connector.

- Micro SD Card with ADLINK Vizi-AI Software Image

- Intel Distribution of OpenVINO toolkit, which optimizes deep learning workloads across Intel® architecture −including accelerators−and streamlines deployments from the edge to the cloud.

- ADLINK Edge™ software which provides enhanced functionality of OpenVINO through the ADLINK Data River™ enabling data to flow freely and securely.

- ADLINK Edge™ Profile Builder which provides a simple, intuitive user experience to manage devices and applications.

- ADLINK Edge™ Model Manager which enables users to add their own models to a pre-loaded selection for easy deployment.

- Dedicated community www.goto50.ai for support, pre-built scenarios and other useful resources.

Developers can easily connect Vizi-AI to different image capture devices and then deploy and improve machine learning models to harness insight from vision data to optimize operational decision-making. Vizi-AI includes a range of pre-built OpenVINO compatible machine learning models that can be used straight out of the box.

This approach can then be scaled for industrial requirements using the same software but deployed on more powerful hardware as needed. Using the Vizi-AI devkit as a starting point ensures the ultimate future-proofed flexibility.

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Specifications

Model Name	Vizi-AI			
System Specification				
CPU	Intel Atom® x5-E3940 SOC			
VPU	Intel® Movidius™ VPU Myriad-X			
Memory	4GB LPDDR4 (max 8)			
Storage	1 x MicroSD for external storage			
Video/Audio				
HDMI	1x HDMI			
LVDS/eDP	Optional single channel on flat cable			
Audio codec on carrier	Stereo headphone audio connector			
Network				
Ethernet	1x Gb Ethernet full speed RJ-45			
I/O				
USB	USB 3.0 x2, USB 2.0 x2, USB 2.0 Client x1			
MRAA compliant 40 pin connector	GPIO, AD, PWM, 12C, RS232, SPI			
Power				
Standard input	12V (110/220V 2.5A adapter for US or EMEA)			
Software				
Operating System	Linux (Debian 9.9)			
ADLINK	ADLINK Edge™ Vision Software Stack			
AI Model Manager	Frame Streamer	OpenVINO Engine	AWS Model Streamer	Training Streamer

What's in the box

- Vizi-AI
- Ethernet Cable
- Power Adapter US
- Micro SD Card with Vizi-AI Software Image

*Software download requires internet connection

*Camera excluded

For more information

Visit https://www.adlinktech.com/en/Vizi-AI-devkit

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