Datasheet

ADLINK Edge™ Vizi-AI

- An industrial standard form factor – SMARC2.0 - developer kit with on-board industrial software to make machine vision simple.
- Create your Machine Vision AI Solution in minutes. Add your Intel OpenVINO model or use one of the pre-packaged options.
- Use ADLINK Edge software to manage remotely for demos/solutions in the field.
- Supported by the goto50.ai community for knowledge sharing, ideas and problems. Come and join us.

Model Name	Vizi-AI
System Specification	
CPU	Intel Atom® x5-E3940 SOC
VPU	Intel® Movidius™ VPU Myriad-X
Memory	4GB LPDDR4
Storage	1 x MicroSD for external storage
Video/Audio	
HDMI	1x HDMI
LVDS/eDP	Optional single channel on flat cable
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, 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

GOTO50.ai community website for info and support

Included in the box

- Vizi-AI
- Power Adapter US/EU
- Micro SD Card with Vizi-AI Software Image on Debian Linux

*Software download requires internet connection *Camera not included

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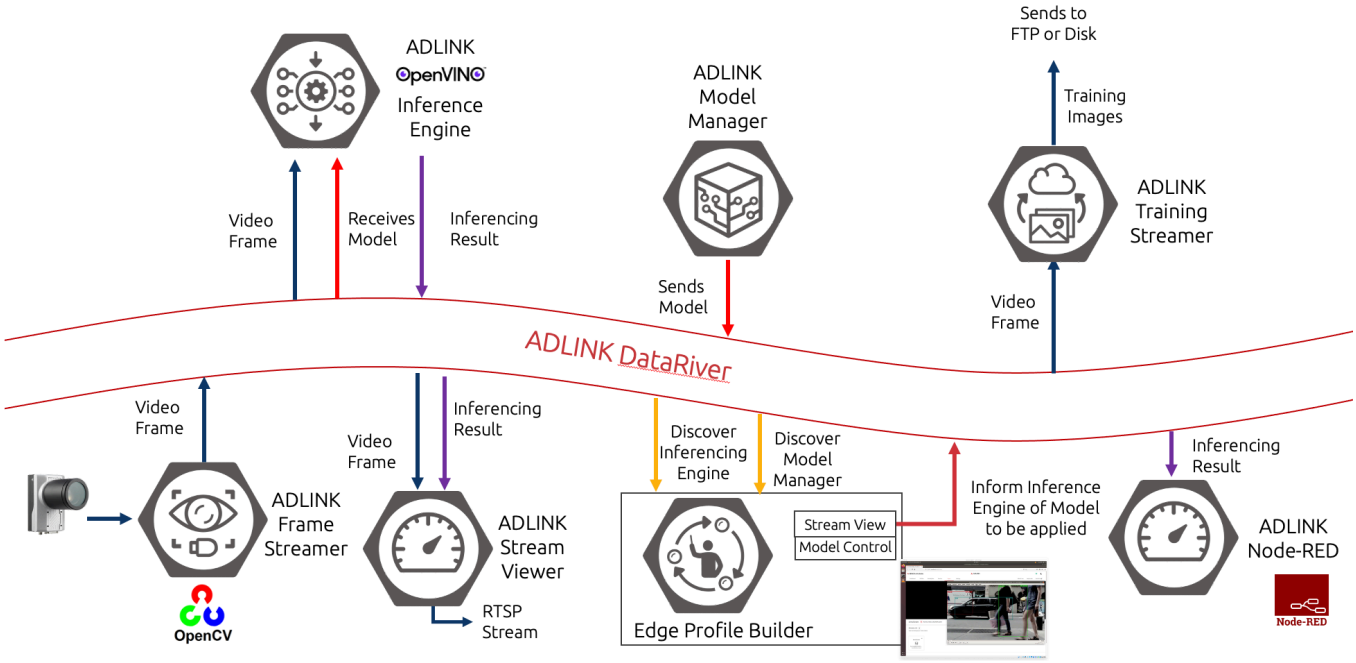
Edge Vision Data Flow



ADLINK Edge™ Software Suite – Apps	
Profile Builder	The ADLINK Edge Profile Builder manages the deployment and operation of the Vizi-AI solution.
Stream Viewer	Receives video frames and inference results from the Data River and combines them into a single video stream that can be viewed with the Profile Builder or an RTSP Viewer
Frame Streamer	Streams video from an attached camera e.g. USB web cam or from an on-device video file
Intel OpenVINO Inference Engine	Reads live video frames from the ADLINK Data River passing them through the user-defined AI inference model and publishes the results back into the Data River in real-time
Model Manager	Facilitates AI inference model deployment by storing models locally for Intel OpenVINO inference engine to load via the ADLINK Data River. Models can be uploaded to the Model Manager via the Profile Builder application.
Training Streamer	Facilitates the capturing of images for the purposes of training AI models. Images can be captured to a local file system and/or can be uploaded to an FTP/SFTP server.
Node-RED	Reads inference results from the ADLINK Data River and takes action in real-time based on what the user graphically modelled using the Node-RED framework