Plug-in-and-code for rapid AI application development on Blaize Xplorer Platforms

Overview

The Blaize® Xplorer® DST-1600 Developer Station is a fully integrated development environment built around the Blaize X1600P PCIe Accelerator Platform. The DST-1600 provides a highly efficient platform for developing complete artificial intelligence applications.

The DST-1600 comes pre-loaded with the Blaize® Picasso® Software Development Kit and code samples. With the DST-1600, users can quickly and easily connect a screen, keyboard, mouse and power to be ready to start development.

Benefits

- No complex hardware or software set up required
- Easy-to-use environment for building complete AI applications on real hardware
- Access to Blaize code examples
- Extensive Blaize Picasso software development kit accelerates development time

X1600P PCIe Accelerator

DST-1600 Developer Station

Features

Development station includes:

- DST-1600 hardware platform
- Blaize Xplorer X1600P PCIe Accelerator Card
- Intel®-based motherboard
- DST-1600 AC power cable
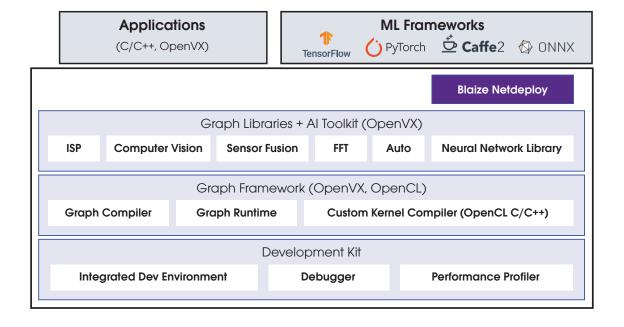- IEEE 802.11ac Wifi

Pre-Installed software

- Operating system: Ubuntu 20.04 (Focal Fossa)
- Linux kernel: v5.3
- Blaize Picasso software development kit
- Microsoft Visual Studio (VS) code IDE

Markets and Use Cases

- Smart Retail
- Smart City
- Smart Manufacturing
- Robotics
- Security
- Smart Vision
- Industrial
- Edge Inference
- Internet of Things

Blaize® Picasso® Graph-Native Software Development Kit Accelerates AI Development Cycle

- Extensive support for Machine Learning frameworks
- NetDeploy toolkit to automatically quantize, compress, and optimize neural networks for resource-constrained environments
- Extensive libraries to build end-to-end AI applications, integrate ISP, Tracker, Sensor Fusion and FFT.
- Standard Languages: OpenVX extended, build custom layers in OpenCL C/C++ kernels

Applications	ML Frameworks
(C/C++, OpenVX)	TensorFlow PyTorch Caffe2 ONNX

Blaize Netdeploy

Graph Libraries + AI Toolkit (OpenVX)

ISP	Computer Vision	Sensor Fusion	FFT	Auto	Neural Network Library

Graph Framework (OpenVX, OpenCL)

Graph Compiler	Graph Runtime	Custom Kernel Compiler (OpenCL C/C++)

Development Kit

Integrated Dev Environment	Debugger	Performance Profiler

blaize®

4659 Golden Foothill Parkway, Suite 206, El Dorado Hills, CA 95762 USA
www.blaize.com | info@blaize.com