

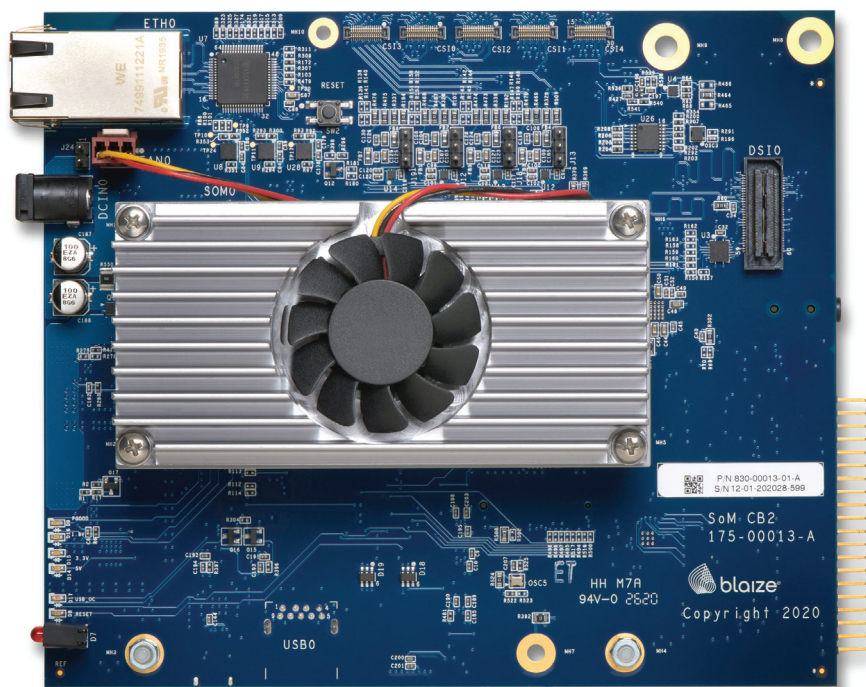


Pathfinder® EST-1600 Embedded Kit

PRODUCT BRIEF

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

The Blaize® Pathfinder® EST-1600 Embedded Kit is a fully integrated embedded development platform built around the Blaize Pathfinder P1600 Embedded System-on-Module Platform. The EST-1600 kit provides a highly efficient platform for developing complete embedded artificial intelligence applications. The EST-1600 comes with multiple external peripheral options including camera, display, USB, SD card, ethernet and is preloaded with Buildroot (a Linux OS for embedded systems). Users can connect a host system with the provided serial cable, download the Blaize Picasso® Embedded Software Development Kit and start development right away.



Required Host Software

- Operating system: Ubuntu 20.04 (Focal Fossa)
- Linux kernel: 5.3
- Blaize Picasso Embedded Software Development Kit
- Microsoft Visual Studio (VS) code IDE

Applications

- Smart Retail
- Smart City
- Smart Manufacturing
- Automotive (Industrial)
- Robotics
- Security
- Smart Vision
- Edge Inference Server
- Internet of Things

Features

- Blaize Pathfinder P1600 System on Module
- Carrier Board
- Power Supply
- Micro-USB Cable
- x2 MIPI CSI-2 HD Cameras
- SD Card
- Ethernet Cable
- Carrier Board Jumpers and assembly hardware
- DSI to HDMI adapter
- HDMI cable

Benefits

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

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

