ZiggyBox™ Mini NVIDIA® Jetson™ Computer System
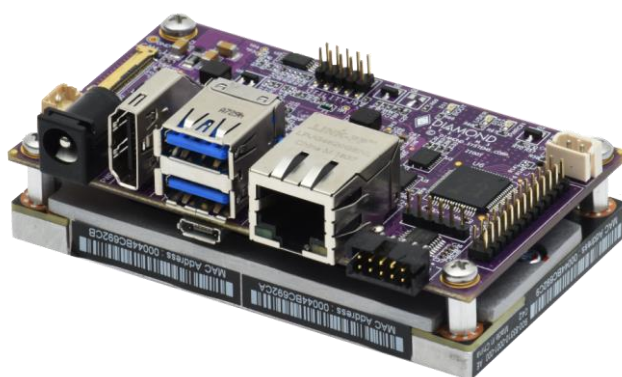

High Performance, Compact Size

The ZiggyBox provides a compact and highly cost-effective solution for AI at the edge and machine learning applications for industrial and lab applications. It is based around the NVIDIA® Jetson™ TX2/TX2i advanced computing module with NVIDIA Pascal™-family GPU technology. The Jetson module is housed in a rugged miniature enclosure measuring only 2.5 x 2.6 x 3.8" (63 x 67 x 96mm).

ZiggyBox offers easy access to the most popular Jetson I/O features, including Ethernet, USB 3.0 / 2.0 / OTG ports, HDMI display, and 2 RS-232 ports. The built-in carrier board adds a valuable data acquisition circuit with real-world analog and digital I/O features and software support.

An integrated heat sink provides reliable operation at up to 80oC without forced air. With its integrated Linux OS and table-top / DIN rail mounting options, ZiggyBox is ready to be deployed wherever the combination of high-performance computing and ultra-compact size are required.
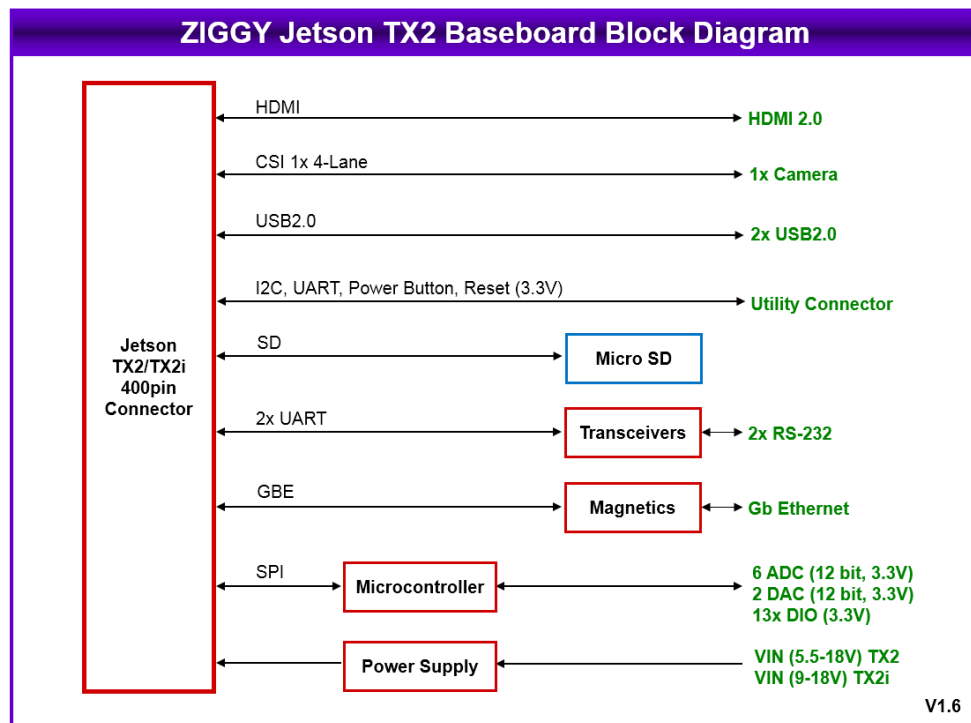
Features

- ♦ NVidia® Jetson™ TX2 / TX2i processor
- ♦ 8GB RAM, 32GB Flash
- ♦ 1x 10/100/1000 Ethernet (RJ-45)
- ♦ 1x USB 3.0 Type A + 1x USB 2.0 Type A
- ♦ 1x USB 2.0 micro with OTG support
- ♦ 1x HDMI
- ♦ 2x RS-232
- ♦ 6x analog inputs, 12-bit resolution, 0-3.3V input range, up to 1Msps throughput
- ♦ 2x analog outputs, 12-bit resolution, 0-3.3V output range
- ♦ 12x digital I/O, 3.3V logic levels
- ♦ Wifi and Bluetooth connectivity (TX2 model only)
- ♦ Built-in Linux OS
- ♦ Input voltage:

    9-15VDC (TX2 model)
    9V-19VDC (TX2i model)

- ♦ Dimensions: 63 x 67 x 96mm / 2.5 x 2.6 x 3.7"
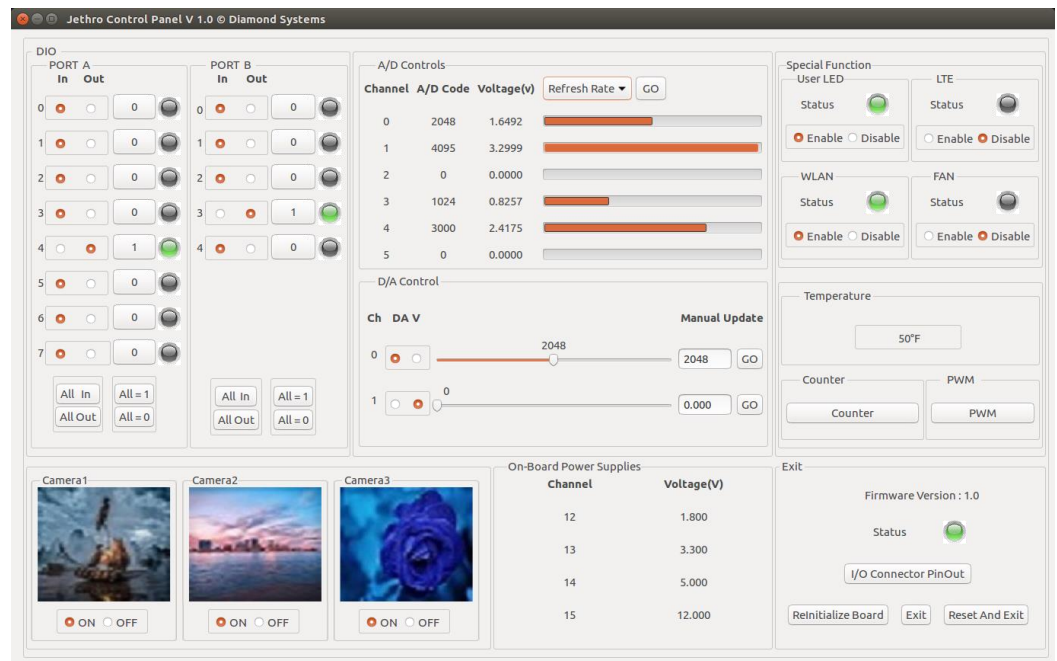- ♦ Operating temperature: -40°C to 85°C

ZiggyBox internal electronics showing Jetson TX2/TX2i Module and Diamond Ziggy carrier board

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ZIGGY Jetson TX2 Baseboard Block Diagram

Data Acquisition

ZiggyBox contains a full-fledged analog and digital I/O circuit that provides control and monitoring of real-world events such as sensors, temperature controls, keypads & switches, and industrial processes. All features are supported by Diamond's built-in data acquisition driver software, featuring a programming library with application demos plus an interactive GUI-based control program that offers real-time access and control.

Ordering Information

ZIGBOX-20-HD
ZiggyBox with TX2 module, heat sink (no fan), DIN bracket

ZIGBOX-21-HD
ZiggyBox with TX2i module, heat sink (no fan), DIN bracket