

# ZiggyBox™ Mini NVIDIA® Jetson™ Computer System



## High Performance, Compact Size

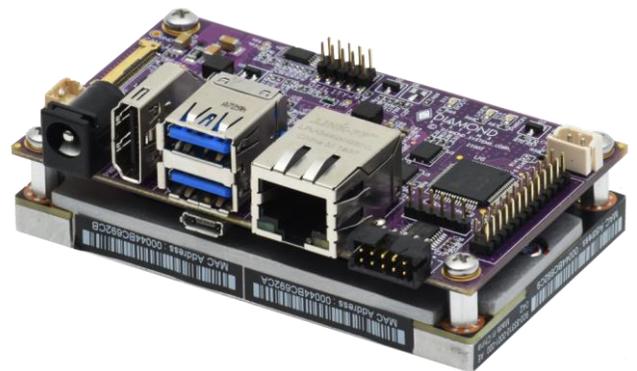
The ZiggyBox provides a compact and highly cost-effective solution for AI at the edge and machine learning applications for industrial and lab applications. It is based around the NVIDIA® Jetson™ TX2/TX2i advanced computing module with NVIDIA Pascal™-family GPU technology. The Jetson module is housed 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.

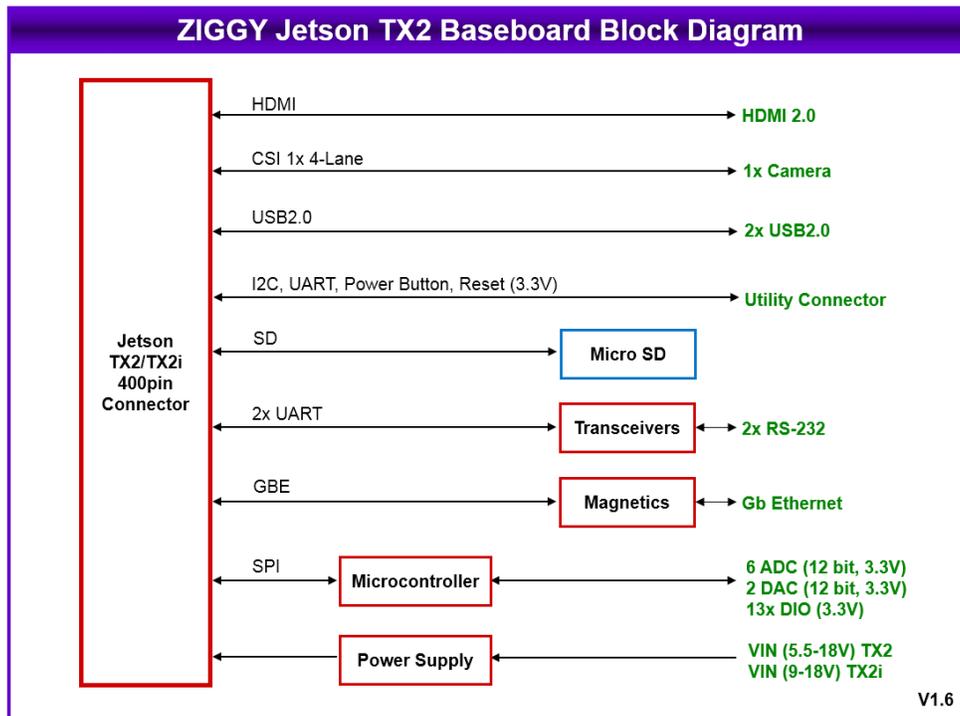
## Features

- ◆ 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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## 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.

| Channel | A/D Code | Voltage(v) |
|---------|----------|------------|
| 0       | 2048     | 1.6492     |
| 1       | 4095     | 3.2999     |
| 2       | 0        | 0.0000     |
| 3       | 1024     | 0.8257     |
| 4       | 3000     | 2.4175     |
| 5       | 0        | 0.0000     |

| Channel | Voltage(V) |
|---------|------------|
| 12      | 1.800      |
| 13      | 3.300      |
| 14      | 5.000      |
| 15      | 12.000     |

## 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