

# ATHENA Artificial intelligence inference accelerator

## Embedded System with NVIDIA® Jetson™ TX2



## Features

- 2.5" HDD/SSD removable bay
- Mini PCIe - optional 3G, LTE/WiFi + BT Module
- Optional PoE extension
- DI x 4 / DO x 4
- HDMI x 2
- M.2 x1 (E-Key)

### System

Module	NVIDIA Jetson TX2
CPU on Module	ARM Cortex-A57 (quad-core) @ 2GHz + NVIDIA Denver2 (dual-core) @ 2GHz
GPU on Module	256-CUDA core Pascal @ 1300MHz
DRAM on Module	8GB 128-bit LPDDR4
Storage on Module	32GB eMMC

### Storage

Expansion Storage	2.5" HDD/SSD Removable Bay Design
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### Software

OS	ubuntu 16.04
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### Connection

WWAN (Optional)	Support by miniPCIe module
WLAN (Optional)	Wi-Fi/BT by TX2

### Function key

Button	Power button x 1 with LED Reset button x 1 Recovery button x 1
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### I/O

LAN	1 x GIGA LAN with 4 ports switch-hub, support PoE function (optional)
Display	2 x HDMI-out
Audio	1 x Line-in & 1 x Line-out, 1 x MIC-in (3.5mm phone jack)
USB	USB3.0 x 3, USB2.0 x 2, OTG x 1
Mini PCIe	1 x Mini PCIe Connector
M.2	M.2 x1 (E-Key)
COM	RS232/RS422/RS485 by SW select
DIO	DI x 4, DO x 4
Socket	1 x SIM Socket 1 x SD Slot

### Power

Power Supply	DC Jack x 1 (12V DC Input) 54V for PoE (optional)
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### Environment

Operating Temp	0° C ~ 60° C 0° C ~ 50° C (PoE model)
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### Mechanical

Dimension (mm)	260(L) * 200(W)*54.65(H)
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