EX713-AA

Industrial Computer Source (Deutschland) GmbH

Mini-ITX Carrier Board

Features

- Operate with NVIDIA Tegra X1/X2 module to build up a high performance Tegra X1/X2 system
- On-board 2 full-height Mini PCIe slots to provide the expandability of connecting AVerMedia Mini-PCIe frame grabbers C353, CM313B, and C351 for audio/video capturing, encoding, and post processing
- 2 USB 3.0 for Tegra X1/X2
- Battery power
- Design with Mini-ITX (170 mm x 170mm X 41mm) form factors for flexible system configuration
- Suitable for applications of robotics, UAV, UGV, AOI, medical image, and other video-enabled equipment for automation, AI, and deep learning

Specifications

Support Module	NVIDIA Tegra X1/X2 Module
Video Interface	1x HDMI Out Type A, 4096 x 2160 p60
Storage	1x SATA 3Gb/s and SATA Power, 1x SD card
LAN Port	1x RJ-45 for Gigabyte Ethernet
Buttons	Power on/off, Reset, Recovery
Multiple PCI Express and USB3.0	2x Full-height Mini-PCI Express 2x USB3.0 Type A
USB2.0	1x USB2.0 Micro-B
Camera Connection Supported by AVerMedia frame grabber	HDMI, VGA, 3G-SDI, and Composite
Other Interface	UART 0 (3.3V TTL) - debug port 6 pin (with RTS and CTS) UART 2 (3.3V TTL) - 4 pin 1x SPI (3.3V) - 9 pin (one SPI bus plus two select lines) 1x I2C (3.3V) - 4 pin 1x 4-pin FAN connector JTAG header - 9 pin extra 40 pin connector
Power Supply	+12VDC/5A
Battery Power	Support with power management
Audio	3.5mm Line-in/Line-out/Mic-in
Operating Temperature	0˚C ~ +55˚C (standard version); -10˚C ~ +70˚C (with fan module)
Operating Humidity	10% ~ 90% (RH)
Storage Temperature	-10˚C ~ +85˚C
Dimension	Mini-ITX, 170mm x 170mm (6.7“ x 6.7“)

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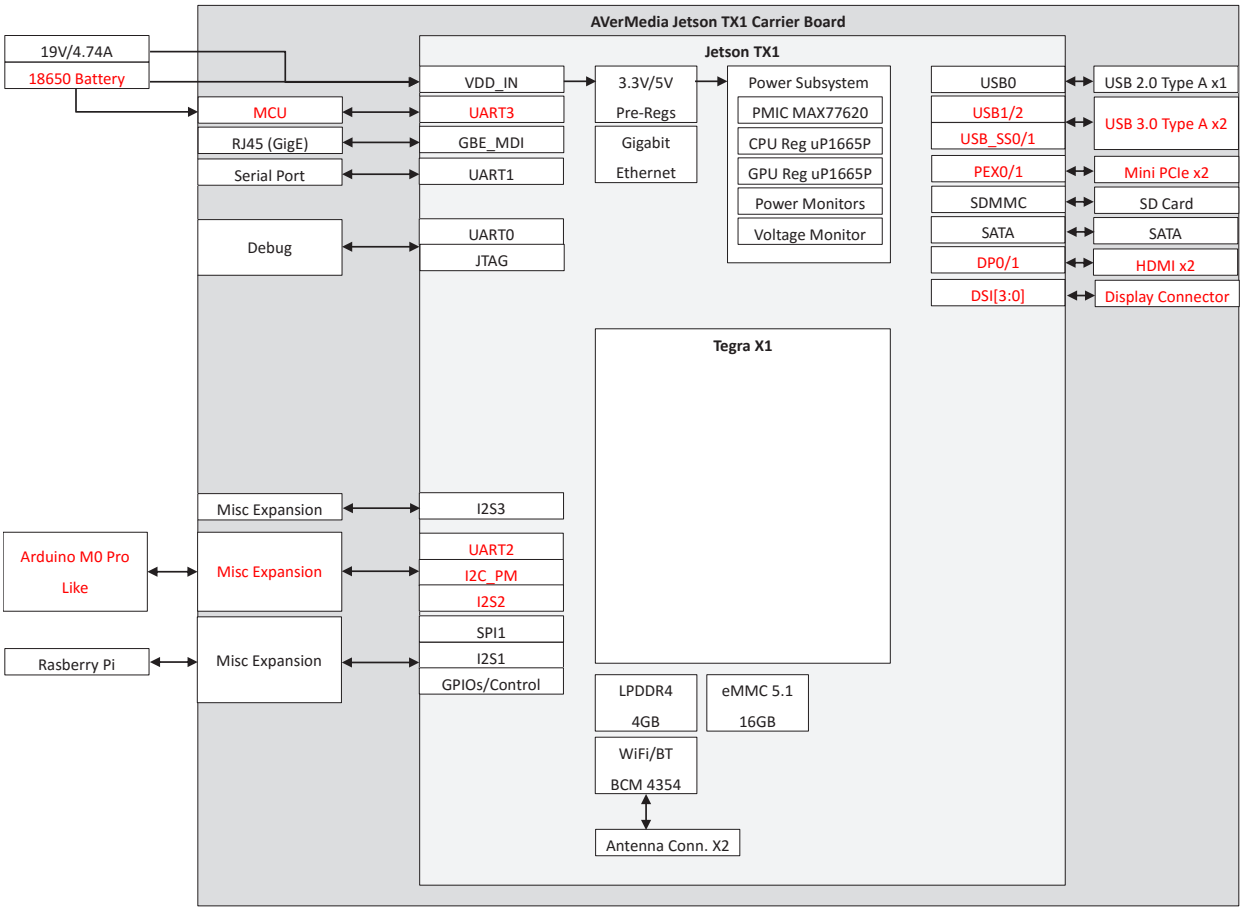
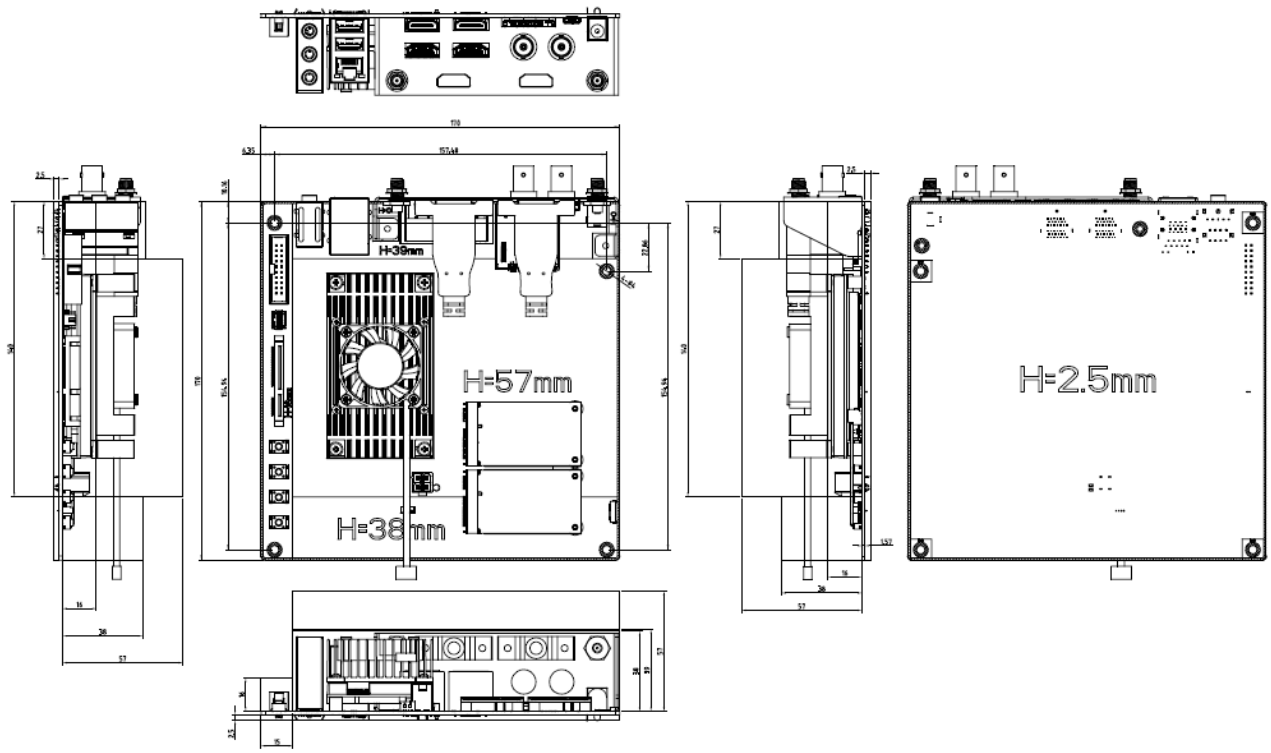
Block Diagram



Dimensions



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Perspective View

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