Quartet Embedded Solutions for TX2

High-Performance TX2 Carrier Board for Embedded Vision

TX2 Module 4 GB / 8GB

Quartet Carrier Board for TX2 enables easy integration of up to 4 x USB3 machine vision cameras at full bandwidth. The Nvidia Jetson deep learning hardware accelerator allows for a complete decision-making system on a single compact board. This custom carrier board provides a fully integrated SOM design which optimizes size and cost by eliminating the need for peripheral hardware and host systems.

APPLICATIONS

ADAS
3D SCANNING
METROLOGY
ROBOTICS
AGVS
P&P / SMT MACHINES
SELF-GUIDED ROBOTS
UAVS

TURNKEY SOLUTION: RUN UP TO 4 CAMERAS SIMULTANEOUSLY

With its 4x USB3 TF38 connectors, the NVIDIA Jetson TX2 module and pre-integrated Spinnaker SDK, the Quartet enables integration of up to four machine vision cameras simultaneously running in a single system.

REDUCE SYSTEM FOOTPRINT

Fully integrated SOM design eliminating the need for peripheral hardware and host systems. It combines power and data transmission over a single cable for a remarkably compact footprint, allowing integrators to easily integrate a powerful single board computer (SBC) into space constrained vision systems.

POWERFUL AND FLEXIBLE HARDWARE

Three system options available depending on your needs. Two options with the module pre-installed with the Spinnaker SDK, enabling plug and play compatibility with Blackfly S USB3 board level cameras. Or the option to buy only the carrier board and build your own system.

For More Information contact:
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www.flir.com/products/quartet-embedded-solution-for-tx2

www.teledyneflir.com

SPECIFICATIONS	ACC-01-6003	ACC-01-6004	ACC-01-6005
Memory	N/A	4 GB 128-bit LPDDR4 51.2 GB/s	8 GB 128-bit LPDDR4 51.2GB/s
CPU	N/A	Dual-Core NVIDIA Denver 1.5 64-Bit CPU and Quad-Core ARM® Cortex®-A57 MPCore processor	
Display	HDMI Type A x 1		
GPU	N/A	256-core NVIDIA Pascal™ GPU architecture with 256 NVIDIA CUDA cores	
Storage	N/A	32 GB eMMC 5.1	16 GB eMMC 5.1
Expansion	SATA connector x1 Fan connector x1		
Dimensions	138 mm × 92 mm × 18.2 mm		
Mass	95 g	182 g	
Operating Temperature	-4°F - 140°F (-20°C - 60°C)* w/0.5 m/s air-flow		
Storage Temperature	-40°F - 158°F (-40°C - 70°C)		
Storage Humidity	5 - 95% @ 40°C, non-condensing		
Input Power	10~24 Vdc with 2-pin terminal block		
Input Output	USB 3.0 x 4 (TF-38) USB 2.0 type A x 1 USB 3.0 type A x 1 Power switch x 1 with LED Micro SD slot x 1 OTG x 1		
Module Power	N/A	7.5 W / 15 W	
Operating System	N/A	Arch Linux	

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11/08/2021 REV1