

Rugged GPGPU Computer

Model: SD-7RP1050GPU



GEFORCE®
GTX 1050Ti



SDK Embedded Systems Ltd. 11 HaHarash St., Southern Industrial zone Ashkelon 78783, Israel

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- The SD-7RP1050GPU is a High Performance Embedded Computer (HPEC) based on NVIDIA Pascal GPU Architecture.
- The power of the GeForce™ GTX 1050Ti delivers unsurpassed graphics, video, and GPU computing performance, with access to 768 NVIDIA CUDA™ cores. It is an ideal solution for performance driven systems such as defense and military/aerospace applications.
- With 768 CUDA® cores, you can unlock the power of the GPU's processor cores to accelerate the most demanding tasks such as video transcoding, physics simulation, ray tracing, and more while delivering incredible performance improvements over traditional CPUs.
- Supports: DirectX® 12 API , OpenGL® 4.4 ,OpenCL® 1.1 , Optimus™, Battery Boost, GPU Boost, Direct Compute and NVIDIA® PhysX



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Highlights

- NVIDIA® GeForce™ GTX 1050Ti (768 CUDA Cores)
- Intel® 6th Generation Core™ / Xeon® E3 v5 Family Processor
- Up to 32GB dual channel ECC DDR4 at 2133 MHz
- 6x Independent video outputs ,DisplayPort/HDMI/DVI (Outputs selection by request)
- DVI/HDMI , HD-SDI and 4 x Composite inputs (Optional)
- Up to 2TB Solid State Storage in removable canister with rugged SATA connector
- 2 x Gigabit Ethernet LAN Interfaces (10/100/1000Mbps)
- 3 x RS232, 2 x RS485 ; 4x USB 3.0, 6x USB 2.0
- GPIO 4 in /4 out
- HD Audio:1 stereo input, 1 stereo output
- All I/O through MIL 38999 Connectors
- Remote power on/off and reset whole system option
- Wide operating temperature -35 to +65°C
- Full IP67 water dust proof, anti-corrosion housing
- Windows™ and Linux Support



NVLink: HIGH-SPEED GPU INTERCONNECT

Tightly Integrates CPU and GPU for Fast Application Performance



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Specifications

Processor & RAM

- Intel® 6th Gen. Xeon® E3 v5 Family E3-1505L v5 Processor
- DDR4-2133 up to 32GB ECC

GPU

- NVIDIA® GeForce™ GTX 1050Ti (768 CUDA Cores)

Video Input

- 6x Independent DisplayPort /HDMI /DVI outputs (Outputs selection by request)

Network interface

- 2x Gigabit Ethernet
- miniPCIe slot for optional WiFi or 4G Modem

Storage

- Up to 2TB Solid State Storage in removable canister with rugged SATA connector

Power Requirements:

- Wide range input +18V to +36V DC
- Reverse polarity protection. Overload protection and transient voltage suppression

Environmental

- Full IP67 water dust proof, anti-corrosion housing
- Operating temperature: -35°C to +65°C
- Storage temperature : -40°C to 80°C
- Operational Altitude (20,000ft) MIL-STD-810G, Method 500.5, Procedure II.
- Humidity: MIL-STD-810G, Method 507.5, and Procedure II.
- Sand and Dust: MIL-STD-810G, Method 510.5 Procedure I (Dust) & II (Sand).
- Fungus: MIL-STD-810G, Method 508.6.
- Vibration: MIL-STD-810G method 514.6, procedure I.
- Mechanical Shock: MIL-STD-810G, Method 516.6 Procedure I & V.
- EMC /EMI : MIL-STD-461F CE101,CE102, CS101, CS114, CS116, RE101,RE102.

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Mechanical Drawings

