XMC-G1050TI

XMC Module with NVIDIA GeForce GTX 1050Ti GPU

Features

- NVIDIA GeForce GTX 1050Ti GPU (Pascal architecture)
- 768 CUDA cores, up to 4GB GDDR5 memory
- Supports NVIDIA CUDA™, Optimus™, DirectX® 12, OpenGL® 4.5, open CL 1.2, Vulkan and Direct Compute
- Conduction and air cooled version for various applications

Specifications

- Processor & System
  GPU
  NVIDIA GeForce GTX 1050Ti
  NVIDIA CUDA Technology (compute capability 6.1), 768 cores
  Supports OpenGL 4.5, OpenCL 1.2, DirectX 12
  Default base clock: 607MHz (30W power consumption)

  Memory
  4GB GDDR5, 7.0 Gbps
  128-bit memory interface, 112 GB/sec bandwidth

  Display
  Conduction cooled version:
  Up to 4 independent displays
  Max. digital resolution: 7680 x 4320
  Max. analog resolution: 1920 x 1200
  Four DisplayPort via P16 I/O connector
  One Analog RGB output via P16 I/O connector

  Air cooled version:
  Up to 4 independent displays
  Max. digital resolution: 1920 x 1200
  Four DVI-D via VHDCI connector

  VITA Specifications
  VITA 42.0 XMC: Switched Mezzanine Card Base Specification
  VITA 42.3 XMC: XMC PCI Express Protocol Layer
  VITA 46.9 VPX: PMC/XMC Rear I/O Fabric Signal Mapping on 3U and 6U VPX Modules

- Connectivity
  XMC Site
  PCI Express x8 Gen3 on P15

  XMC I/O
  Four DisplayPort 1.2 and one VGA on P16 (conduction cooled version only)

  Front Panel
  Four DVI-D to front panel via VHDCI connector (air cooled version only)

- Operating System
  OS
  Microsoft Windows 7, Windows 10
  Ubuntu, CentOS Linux
  (Please contact ADLINK for other OS support.)

- Mechanical & Environmental
  Form Factor
  Standard XMC Form Factor
  143.75 x 74mm (conduction cooled version)
  149 x 74mm (air cooled version)

  Operating Temp.
  -40°C to +75°C (conduction cooled version, with GPU throttling)
  0°C to +55°C (air cooled version)

  Relative Humidity
  95% non-condensing

- Shock
  Sawtooth 40G, 11ms, each axis, operating (conduction cooled version)
  20g peak, 11ms (air cooled version)

- Vibration
  15Hz-2KHz, 12Grms, random, each axis, operating (conduction cooled version)
  Random: 0.002g2/Hz from 10 to 2000Hz; Sine: 2G, 5 to 500Hz (air cooled version)

- Power Consumption
  30W (GPU base clock: 607MHz)

- Weight
  110g (conduction cooled version)
  130g (air cooled version)

- Safety & EMI
  Certifications
  CE, FCC Class A
### Ordering Information

**XMC GPU Module**

- **XMC-G1050TI-R1**
  NVIDIA GeForce GTX 1050Ti, 4GB GDDR5, no P16 or display output, conduction cooled, -40°C to +75°C

- **XMC-G1050TI-DP-R0**
  NVIDIA GeForce GTX 1050Ti, 4GB GDDR5 with P16 and display output, conduction cooled, 0°C to +55°C

- **XMC-G1050TI-R0**
  NVIDIA GeForce GTX 1050Ti, 4GB GDDR5, no P16 or display output, conduction cooled, 0°C to +55°C

- **XMC-G1050TI-DVI-A0**
  NVIDIA GeForce GTX 1050Ti, 4GB GDDR5, VHDCI front panel connector, breakout cable to 4x DVI, air cooled, 0°C to +55°C

- **XMC-G1050TI-A0**
  NVIDIA GeForce GTX 1050Ti, 4GB GDDR5, VHDCI front panel connector (no cable), air cooled, 0°C to +55°C