VCO-6020-1050TI

GPU Computing System with LGA 1151 for Intel® 6th/7th Gen Processor and Q170 PCH, GTX 1050 Ti Integrated

FEATURES

- Support 6th & 7th Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151)
- Intel® Q170 chipset
- NVIDIA GeForce® GTX 1050 Ti Graphics engine based on NVIDIA Pascal™ GPU architecture
- 2x DDR4 SODIMM. max up to 32GB
- 6x display interface supported by 2x DVI-I, 3x DisplayPort, 1x HDMI
- 2x Intel® GbE & supporting Wake-on-LAN and PXE
- 2x 2.5" SATA HDD Bay, 2x msATA (shared by 2x mini PCIe), 1x CFast
- 3x full-size mini PCIe for communication or expansion modules
- 4x RS-232/422/485 (w/ 2x internal), 4x USB 3.0, TPM 1.2
- 8x DI + 8x DO with isolation
- 9 to 50VDC wide range power input supporting AT/ATX mode
- -25°C to 70°C extended operating temperature

SPECIFICATIONS

SYSTEM

Processor
- Support 6th & 7th Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151)
  - 7th Gen Intel® Core™ i7-7700T, Quad Core, 8MB cache, up to 3.8 GHz
  - 7th Gen Intel® Core™ i5-7500T, Quad Core, 6MB cache, up to 3.3 GHz
  - 7th Gen Intel® Core™ i3-7100T, Dual Core, 3MB Cache, 3.4 GHz
  - 6th Gen Intel® Core™ i7-6700TE, Quad Core, 8MB cache, up to 3.4 GHz
  - 6th Gen Intel® Core™ i5-6500TE, Quad Core, 6MB Cache, up to 3.3 GHz
  - 6th Gen Intel® Core™ i3-6100TE, Dual Core, 4MB Cache, 2.7 GHz
  - Intel® Pentium® G4400TE, Dual Core, 3MB Cache, 2.4 GHz
  - Intel® Celeron® G3900TE, Dual Core, 2MB Cache, 2.3 GHz

System Chipset
- Intel® Q170 Express Chipset

LAN Chipset
- GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE)
- GbE2: Intel® I219LM (Support Wake-on-LAN and PXE)

Audio Codec
- Realtek ALC888S

System Memory
- 2x DDR4 1866/2133MHz SODIMM. Max. up to 32GB

BIOS
- AMI 128Mbit SPI BIOS

Watchdog
- Software Programmable Supports 1~255 sec. System Reset

TPM
- TPM 1.2

DISPLAY

Graphics
- Intel® HD Graphics 530 / 630 or NVIDIA GeForce® GTX 1050 Ti

DVI
- 2x DVI-I

DisplayPort
- 3x DisplayPort

HDMI
- 1x HDMI

Multiple Display
- 6 Display Interfaces

STORAGE

SSD/HDD
- 2x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10

mSATA
- 2x msATA (shared by 2x mini PCIe Express)

CompactFlash/ CFast
- 1x CFast

EXPANSION

Mini PCI Express
- 3x Full-size Mini PCIe (shared by 2x msATA)

I/O

COM
- 2x RS-232/422/485
- 2x RS-232/422/485 (internal)

USB
- 4x USB 3.0

LAN
- 2x RJ45

Audio
- 1x Mic-in, 1x Speaker-out

DIO
- 8 in / 8 out (Isolated)

Others
- 2x WiFi Antenna Holes
- 1x Power Switch, 1x AT/ATX Switch

OPERATING SYSTEM

Windows
- 6th Gen CPU: Windows 10, Windows 7, WES7
- 7th Gen CPU: Windows 10

Linux
- Linux kernel 4.X

POWER

Power Mode
- AT, ATX

Power Supply Voltage
- 9~50VDC

Power Connector
- 3-pin Terminal Block

Power Adaptor
- Optional AC/DC 24V/9.2A, 220W

Power Protection
- OVP (Over Voltage Protection)
- OCP (Over Current Protection)
- Reverse Protection

ENVIRONMENT

Operating Temp.
- -25°C to 70°C

Storage Temp.
- -40°C to 85°C

Relative Humidity
- 10% to 95% (non-condensing)

Vibration
- With SSD: 3 Grms, 5 - 500 Hz, 0.5 hr/axis
- With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis

Shock
- With SSD: 50G, half sine, 11ms

Standards / Certification
- CE, FCC Class A

PHYSICAL

Construction
- Extruded Aluminum with Heavy Duty Metal

Dimension
- 137(W) x 256(D) x 240(H) mm

Weight
- 7.71 kg

Mounting
- Wall Mounting
- DIN-Rail Mounting (Optional)

* For detailed performance specification, please refer to the data sheet or consult with the technical team.
† The environmental specification covers the bare bone systems and does not include other components environmental specification.
**PACKING LIST**

- 1x VCO-6020-1050TI Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter

**MODEL NO.**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>VCO-6020-1050TI</td>
<td>GPU Computing System with LGA 1151 for Intel® 6th/7th Gen Processor and Q170 PCH, GTX 1050Ti Integrated</td>
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**OPTIONAL ACCESSORIES**

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<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>1-E09A22102</td>
<td>Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch</td>
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<td>1-TPCD00002</td>
<td>Power Cord, European Type</td>
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<td>1-TPCD00001</td>
<td>Power Cord, 3-pin UK Type, 180cm</td>
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**AVAILBLE MODELS**

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