VCO-6020-1050TI
GPU Computing System with LGA 1151 for Intel® 6th/7th Gen Processor and Q170 PCH, GTX 1050Ti 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 2.0
- 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™ i3-7101TE, Dual Core, 3MB Cache, 3.4 GHz
  - 6th Gen Intel® Core™ i7-6700T, Quad Core, 8MB cache, upper 3.3 GHz
  - 6th Gen Intel® Core™ i5-6500T, 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, 3GB Cache, 2.4 GHz
  - Intel® Celeron® G3900TE, Dual Core, 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 2.0
- **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**
  - 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 PCIe Express 3x Full-size Mini PCIe (shared by 2x mSATA)

**I/O**

- **COM** 2x RS-232/422/485 (with 2x internal)
- **USB** 4x USB 3.0
- **LAN** 2x RJ45
- **Audio** 1x Mic-in, 1x Speaker-out
- **DIO** 8in / 8out (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
- With HDD: 10G, half sine, 17ms
- 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)

*All specifications and photos are subject to change without notice.*
**PACKING LIST**

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

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**MODEL NO.**

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**OPTIONAL ACCESSORIES**

- 1-E9A22102: Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch
- SFICBL022: Power Cord, 3-pin US Type, 180cm
- 1-TPCD00002: Power Cord, European Type
- 1-TPCD00001: Power Cord, 3-pin UK Type, 180cm

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