



GPU COMPUTING SYSTEM

VCO-6022C-2PWR series

GPU Computing System with LGA 1151 for Intel® 6th/7th Gen Processor and Q170 PCH, 24V Power for GPU



FEATURES

- Support 6th & 7th Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151)
- Intel® Q170 chipset
- 2x DDR4 SODIMM. max up to 32GB
- Triple independent display supported by 1x DVI-I and 2x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x 2.5" SATA HDD Bay supporting RAID 0, 1, 5, 10; 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
- 1x PCIe x16 expansion
- 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™ i7-6700TE, 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 2.0 |

Display

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|------------------|------------------------------|
| Graphics | Intel® HD Graphics 530 / 630 |
| DVI | 2x DVI-I |
| DisplayPort | 2x DisplayPort |
| Multiple Display | Triple Display |

Storage

| | |
|---------|--|
| SSD/HDD | 2x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10 |
| mSATA | 2x mSATA (shared by 2x Mini PCI Express) |
| CFast | 1x CFast |

Expansion

| | |
|------------------|---|
| Mini PCI Express | 3x Full-size Mini PCIe (shared by 2x mSATA) |
| PCI Express | 1x PCIe x16 |
| Card Dimension | 215mm (L) x 112mm (H) ; 2 Slots |

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 | 6 th Gen CPU: Windows 10, Windows 7, WES7 7 th Gen CPU: Windows 10 |
| Linux | Linux kernel 4.X |

Power

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|----------------------|--|
| Power Mode | AT, ATX |
| Power Supply Voltage | 9-50VDC |
| Power Connector | 3-pin Terminal Block |
| Power Adaptor | Optional AC/DC 24V/5A, 120W Optional AC/DC 24V/9.2A 220W |
| Power Protection | OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection |

Environment

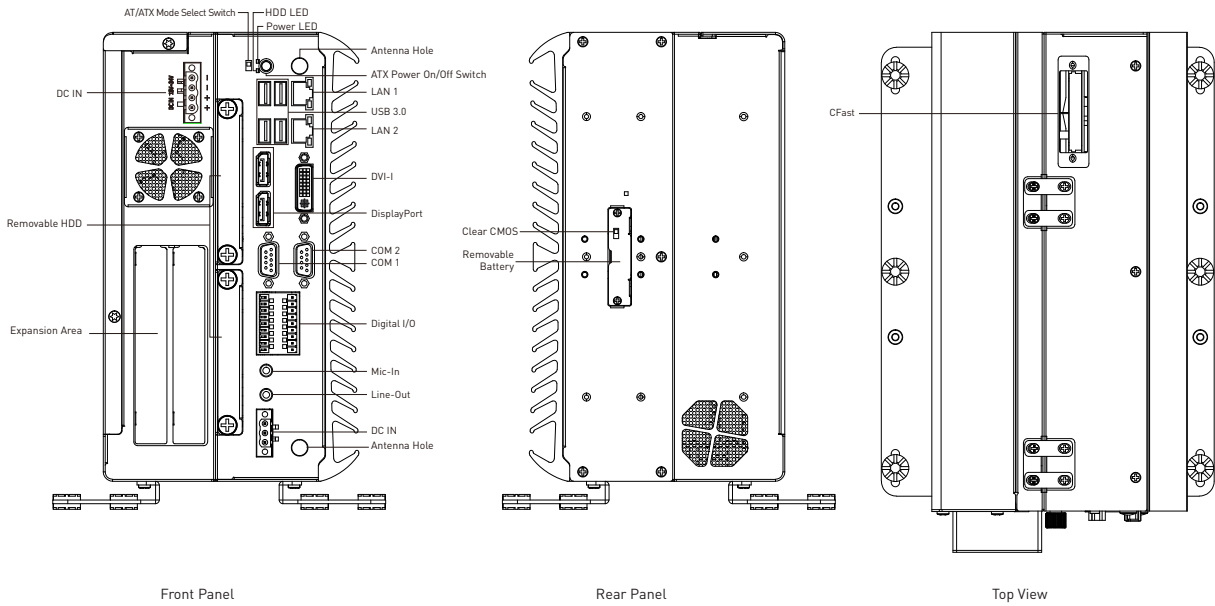
| | |
|---------------------------|--|
| Operating Temp. | -25°C to 70°C |
| Storage Temp. | -40°C to 85°C |
| Relative Humidity | 10% to 95% (non-condensing) |
| Vibration | With SSD: 3 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis |
| Shock | With SSD: 50G, half sine, 11ms |
| 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 | 7.83 kg |
| Mounting | Wall / Book Mounting DIN-Rail Mounting (Optional) |

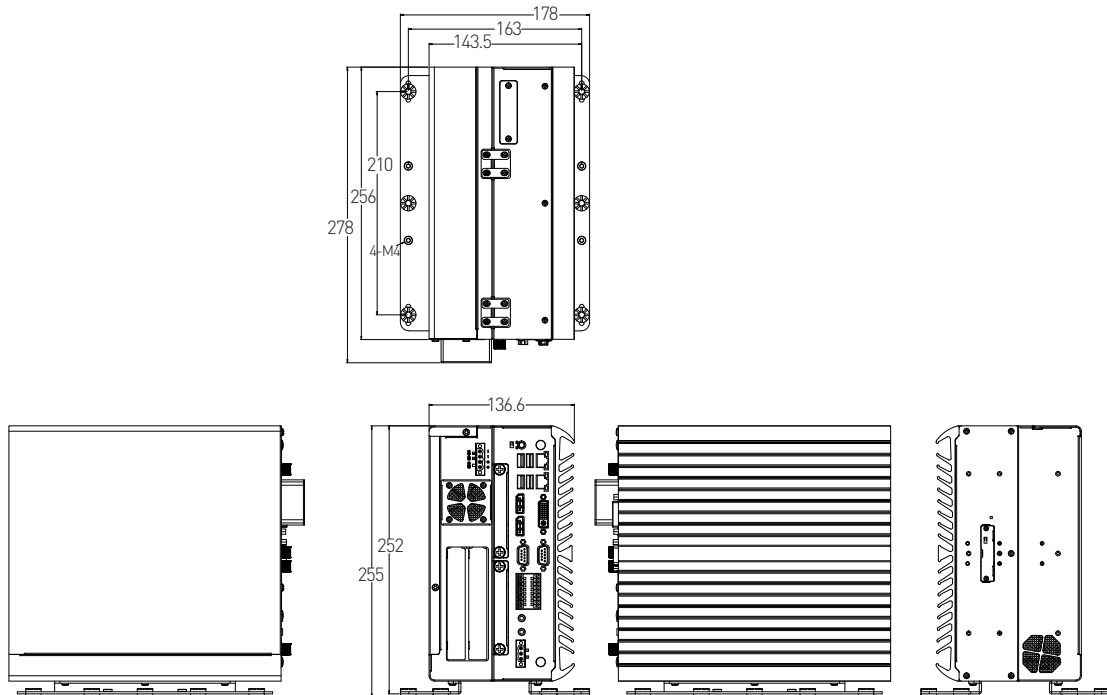
* All specifications and photos are subject to change without notice.

EXTERNAL I/O MECHANICAL LAYOUT



DIMENSION

Unit: mm





VCO-6022C-2PWR series

ORDERING INFORMATION

| MODEL NO. | DESCRIPTION |
|-------------|---|
| 1-E09A22102 | Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch |
| 1-TPCD00005 | Power Cord, 3-pin US Type, 180cm |
| 1-TPCD00002 | Power Cord, European Type |
| 1-TPCD00001 | Power Cord, 3-pin UK Type, 180cm |

PACKING LIST

- 1x VCO-6022C-2PWR Embedded System
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter

AVAILABLE MODELS

| MODEL NO. | DESCRIPTION |
|----------------|--|
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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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