

# Transduction

Intel Core i7/i5 Processor up to 3.4GHz

## TR-GRYPHON

This computer comes with the latest Intel Generation 5 i5/i7 quad core processors. Based on the new Broadwell Series 9 Z97 chipset that supports Intel boot guard to protect computer from malware attacks and it features new Intel response and Rapid start technologies with Dynamic Cache sharing.

MIL Standard components have been used on the motherboard and the entire system was stress tested for thermal shock, mechanical shock and vibration.

As only the highest quality components have been used TR-GRYPHON computer comes with 5 years warranty and telephone support for life.

Price of the basic system is only \$950 for version with 300W universal AC power supply.

TR-GRYPHON can be mounted in any position as panel mount, desktop or tower computer.

### Features

- For Windows 7, 8 and 8.1.
- Intel i5 or i7 Generation 5 processors.
- Up to 32GB DDR3 high temperature memory.
- 4K 4096 x 2160 graphics.
- MIL standard components.
- Thermal Management.
- Dust Management.
- Electrostatic Discharge Protection.
- 30G resistance to mechanical shock.
- Low EMI - FCC Class B compliance.
- Data protection with RAID1.
- Universal AC power 90 to 260V.
- 24, 48, 125 and 250VDC input power options.
- 5 years warranty. with technical support for life.



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#### Specifications

##### Processor

- Latest generation Intel Core i7/i5, processors, up to 3.4GHz
- Supports Intel 22nm CPU
- Supports Intel Turbo Boost Technology 2.0

##### Processor Socket

- LGA1150

##### Chipset

- Intel Z97

##### Memory

- 4 x DIMM, max. 32GB DDR3 1866/1600/1333MHz Non-ECC, un-buffered memory
- Dual Channel Memory Architecture
- Supports Intel Extreme Memory Profile (XMP)
- 

##### BIOS

- 64MB Flash ROM, UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.7, ACPI 5.0, multi-language BIOS
- ASUS EZ Flash 2, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified log, F12 Print-Screen, F3 Shortcut functions and ASUS DRAM SPD memory information

##### Gigabit LAN

- Intel I218V, 1 x Gigabit LAN Controller

##### Graphics

- Integrated Graphics Processor
- Multi-VGA output support: HDMI/DVI ports
- Supports HDMI with max. resolution 4096 x 2160 @ 24Hz / 2560 x 1600 @ 60Hz
- Supports DVI with max. resolution 1920 x 1200 @ 60Hz
- Maximum shared memory of 1024MB
- Supports Intel InTru 3D, Quick Sync Video, Clear Video HD Technology, Insider

##### Multi-GPU Support

- Supports NVIDIA Quad -GPU SLI Technology
- Supports AMD Quad-GPU CrossFireX Technology

##### Expansion Slots

- 2 x PCIe 3.0/2.0 x16 (x16 or dual x8)
- 1 x PCIe 2.0 x16 (x4 mode, black)
- 1 x PCIe 2.0 x1

##### Storage

- 1TB - 6TB Seagate Constellation ES 24/7 hard drives
- 6 x SATA 6Gb/s port(s), brown
- Support RAID 0, 1, 5, 10
- Supports Intel Smart Response Technology, Intel Rapid Start Technology, Intel Smart Connect Technology

##### Audio

- Realtek ALC892 8-channel HD audio CODEC
- Supports: jack-detection, multi-streaming, front panel jack-retasking
- Absolute pitch 192kHz/24-bit True BD lossess sound
- Optical S/PDIF out port(s) at back panel
- BD audio layer content protection

##### USB Ports

- 6 x USB 3.0/2.0 port(s) (4 at back panel, blue, 2 at front)
- 4 x USB 2.0/1.1 port(s) (2 at back panel, black)

##### Back I/O Ports

- 1 x DVI-D, 1 x HDMI, 1 x LAN (RJ45), 4 x USB3.0 (blue), 4 x USB 2.0, 1 x DisplayPort, 1 x S/PDIF out and 5 x audio jacks

##### Power

- 300W universal AC power supply
- For DC input power see options.

##### Accessories

- User manual + drivers on CD
- USB optical mouse and USB keyboard

**Warranty:** 5 years

##### Compliance

- UL-C, FCC Class B and CE

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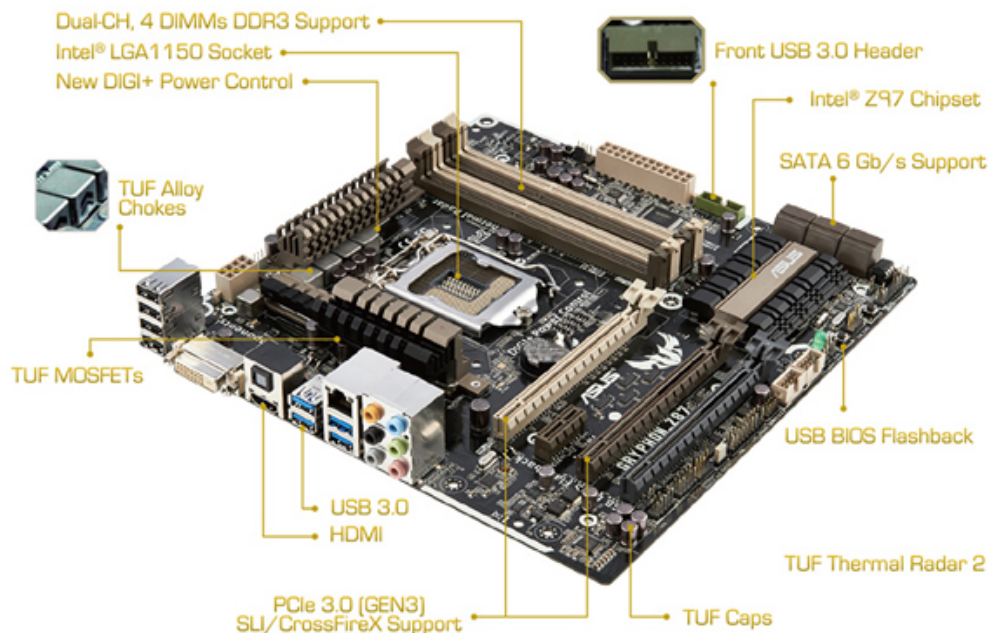
## TR-GRYPHON

### Environmental

- Operating temperature: 0~50°C (32~122°F), 60°C (140°F) for 2 hours
- Storage temperature: -10~85°C (14~185°F)
- Operating range of humidity: 10%~90% non-condensing
- Optimal humidity for long term storage: 45% non-condensing
- Shock: 30G according to MIL-STD-202G Method 213B Condition D
- Vibration: 5G according to MIL-STD-810F Method 514
- Altitude: 30,000ft
- Weight: 15kg (33.1lbs)
- Weight in carton box with foam inserts: 17kg (37.5lbs)
- Carton dimensions: 19" x 13" x 25"

### Reliability

- Capacitors
  - Thermal Shock Test (MIL-STD-202G Test Method 107G)
  - Moisture Resistance Test (MIL-STD-202G Test Method 106G)
  - Salt Spray Test (MIL-STD-883G method 1009.8)
  - Solderability Test (MIL-STD-202G 208H Test Method)
  - Solder Bath Test (MIL-STD-202G 210F Test Method)
  - Vibration Test (MIL-STD-202G Method 201A)
  - Mechanical Shock Test (MIL-STD-202G Method 213B Condition D)
- Chokes
  - Vibration Test (MIL-STD-810F Method 514)
  - Temperature Cycling Test (MIL-STD-810F Method 501/502)
- MOSFET's
  - Thermal Shock Test (MIL-STD-883G 1011.9)
  - Vibration Test (MIL-STD-883 Method 2007.2 Condition A)
  - Mechanical Shock Test (MIL-STD-883G 2002.4)





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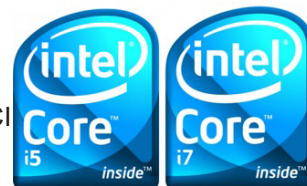
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## TR-GRYPHON

TR-GRYPHON Military Grade Panel Mount/Desktop Computer

### GA1150 5th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors Ready

This motherboard supports Intel® 5th generation Core™ i7/i5/i3/Pentium®/Celeron® processors in the LGA1150 package, with iGPU, memory and PCI Express controllers integrated to support onboard graphics output with dedicated chipsets, 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 3.0/2.0 lanes. This provides great graphics performance. Intel® 5th generation Core™ i7/i5/i3/Pentium®/Celeron® processors are among the most powerful and energy efficient CPUs in the world.



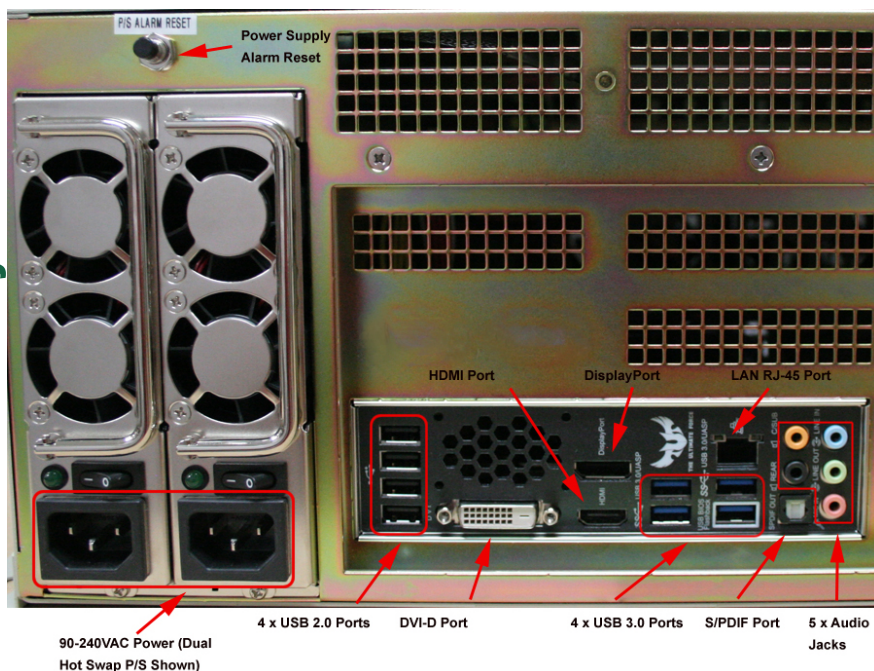
### Intel® Z97 Express Chipset

The Intel® Z97 Express Chipset is a single-chipset design that supports socket LGA1150 5th generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, Z97 provides a maximum 6 USB 3.0 ports and 6 SATA 6Gb/s ports for faster data retrieval. Moreover, the Intel® Z97 Express Chipset also supports iGPU functions, letting users enjoy the latest Intel integrated graphics performance.

### Order Checklist

- ☐ TR-GRYPHON computer with 300W universal power supply, Logitech USB keyboard and infrared mouse
- ☐ Intel i5 3.10GHz G5 processor
- ☐ Intel i7 3.4GHz G5 processor
- ☐ 4GB DDR3 memory
- ☐ 8GB DDR3 memory
- ☐ 16GB DDR3 memory
- ☐ Dual head video adapter
- ☐ Quad head video adapter
- ☐ 1TB 24/7 server-class hard drive
- ☐ 2TB 24/7 server-class hard drive
- ☐ Industrial MLC 128GB flash drive
- ☐ Industrial SLC 128GB flash drive
- ☐ SLIM CD-DVD-R/W
- ☐ RAID1 second drive
- ☐ Dual hot swap 550W power supply
- ☐ Universal 90 ~ 260V AC power supply
- ☐ 24VDC power supply
- ☐ 48VDC power supply
- ☐ 125VDC power supply
- ☐ 250VDC power supply
- ☐ 12VDC/5A fused adapter for external monitor
- ☐ Anti-vibration mount
- ☐ 24 hour 60°C stress test
- ☐ Nuclear QA standard documentation
- ☐ Microsoft Windows 7, 8 or 8.1 O/S

### Rear Connectors



TR-GRYPHON can be mounted in any position as panel mount, desktop or tower computer.

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