



Intel Quad Core i7 or Dual Xeon Processors

TR-MANTA

TR-MANTA computer has been designed specifically for fast processing of the video and data. Although it can be used as general purpose server, it has been optimized for video edits as video is a fast growing field driven by popularity of hand held smart phones and tablets. It has storage capacity up to 48GB.

TR-MANTA computer can be supplied with Intel i7 quad core processor or dual Xeon processors with four or six cores. Main feature of this computer is the fast access of disk drives and large storage capacity up to 48GB with 8 drives. This has been accomplished with SAS type drives in hot swap canisters and choice of super fast disk controllers. To facilitate fast processing of video, this computer includes high end graphics card. This computer also includes provision for the fast flash drive to speed up boot process and operating system. Hard drives are for data and video. The air flow inside the chassis has been optimized for use of the fast 6 GB/Sec drives, which run hot. Clients who need disk storage capacity but not high speed can use standard less expensive 2.5" or 3.5" SATA hard drives.

Options include choice of Intel processors, memory size, graphics interface, various capacities of the SAS or SATA drives and choice of high performance controllers. Also a dual hot swap power supply.

The basic price of the TR-MANTA computer with Intel i7 3.4 Ghz processor and 16GB of dual channel memory and 8 fast 2TB 6 GB/sec SAS hard drives is US \$4500. Delivery is 2 weeks ARO, warranty is 5 years.

Features

- Fast hard disk (SAS) storage up to 48GB for video and data processing.
- For Windows 7, 8 and 8.1.
- Intel i7 4-core or Xeon 6-core processors.
- Up to 32GB DDR3 high temperature memory.
- Fast access flash drive for speed of the operating system.
- Single or dual hot swap power supplies.
- High performance graphics and sound options.
- Choice of operating system.
- 5 years warranty. with technical support for life.
- Very good value for the money!

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TR-MANTA Computer For Fast Processing of Video and Data

Specifications

Processor

- Intel i7 3.4GHz Generation 4

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

BIOS

- AMI BIOS, ACPI supported

Gigabit LAN

- Intel I217LM Gigabit LAN PHY; Intel I211AT PCI-E Gigabit LAN; RJ-45 on board

Video

- 4th Generation Intel Core integrated graphics, 1024MB max. shared memory
- Supports VGA CRT and 24-bit dual channel LVDS

USB Ports

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

Back I/O Ports

- 1 x SVGA, 2 x LAN (RJ45) and 2 x serial COM ports

Audio

- Intel Q87 chipset built-in HD audio with Realtek ALC662 codec for 5.1 channel output

Disk I/O Controller - Adaptec 6805E w/ PCIe Interface

- Disk drives: up to 8 Seagate Constellation ES SAS hard drives 1TB to 6TB configured as RAID0, 1, 5, 10 and 50 in hot swap canisters. Alternatively solid state flash drives or mix of hard and SSD's can be

used for higher capacity and speed.

- Flash ROM for updates to disk controller firmware, BIOS and Adaptec RAID Configuration Utility
- Disk drive hot-swapping
- Event logging and broadcasting, including email notification messages
- Multiple options for creating and managing RAID arrays - a browser-based software application (maxView Storage Manager), a BIOS-based utility (ARC) and a command line utility (ARCCONF)
- Native command queuing (NCQ) which lets disk drives arrange commands into most efficient order for optimum performance
- Support for flash backup module
- Power management of disk drives in your storage space to reduce cooling and electricity costs
- Audible alarm
- I/O statistics logging
- Support for JBOD disks (appear as a physical disk drive to the operating system; not redundant)
- Support for hot spares (global and dedicated)
- Support for automatic failover, so arrays are automatically rebuilt when a failed drive is replaced
- Optimized disk utilization, which ensures that the full capacity of all disk drives can be used even if drives vary in size
- Online capacity expansion, so you can increase the capacity of an array without recreating it
- Support for array migration from one RAID level to another
- Copyback Hot Spare - You use this feature to move data from a hot spare back to its original location after a failed disk drive is replaced
- Striped Mirror (RAID 1E) - A RAID 1 Enhanced array is similar to a RAID1 array except that data is both mirrored and striped, and more disk drives can be included
- Hot Space (RAID 5EE) - A RAID 5EE array is similar to RAID5 array except that it includes a distributed spare and must be built from a minimum of four disk drives
- Dual Drive Failure Protection (RAID6) - A RAID6 array is similar to a RAID5 array except it includes two independent sets of parity data instead of one
- Dual Drive Failure Protection (RAID 60) - A RAID60 array is similar to a RAID50 array

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Power Supply

- Universal AC 460W or 125VDC. Optional 550W dual hot swap universal AC power supply

Compliance

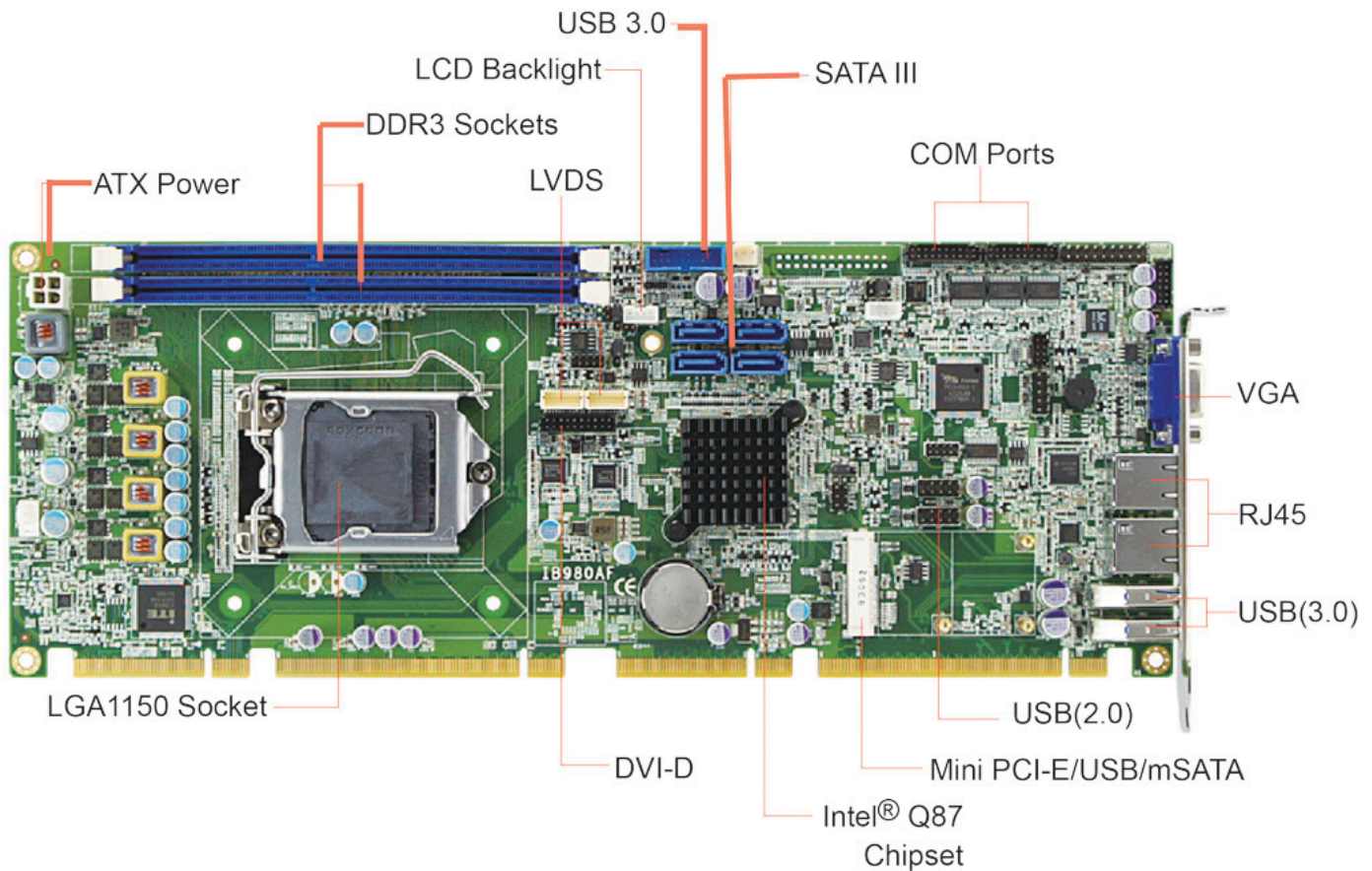
- Electrical Safety, FCC Class B. No CE Mark - this computer is destined for use in North America

Each computer comes with black Logitech USB keyboard and infrared mouse

Warranty: 5 years

Options

- Define memory size up to 32GB
- RAID cash backup
- Spare drive in a canister
- High performance sound card
- High performance video card
- Sound speakers
- Pair of chassis slides
- 27" desktop monitor DVI/HDMI



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TR-MANTA Computer For Fast Processing of Video and Data

GA1150 4th Generation Core™ i7/Xeon® Processors Ready

This computer supports Intel® 4th generation Core™ i7/Xeon® 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® 4th generation Core™ i7/Xeon® processors are among the most powerful and energy efficient CPUs in the world.



Intel® Z87 Express Chipset

The Intel® Z87 Express Chipset is a single-chipset design that supports socket LGA1150 4th generation Intel® Core™ i7/Xeon® processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, Z87 provides a maximum 6 USB 3.0 ports and 6 SATA 6Gb/s ports for faster data retrieval. Moreover, the Intel® Z87 Express Chipset also supports iGPU functions, letting users enjoy the latest Intel integrated graphics performance.