Transduction

Intel Xeon E3 or Core i5/i7 Processors

TR-ORION

TR-ORION Industrial Grade Panel Mount/Desktop Computer

This industrial computer comes with Intel Xeon E3 or i5/i7 quad core processors. Based on the Kaby Lake C236 chipset, it supports Intel Device Protection Technology with Boot Guard to protect computer from malware/virus attacks and features a digital-controlled power supply design that can be monitored in real time by FSP Intelligent Monitor software.

High quality components have been used on the entire system that were stress tested for thermal shock, mechanical shock and vibration.

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

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

Contact Transduction to have the TR-ORION computer configured to your requirements.

Features

- Intel Xeon E3 or i5/i7 processors up to 4.2GHz.

- Up to 32GB DDR4 high temperature memory.

- 10-slot PICMG 1.3 backplane with 4 x PCIe x1, 1 x PCIe x16, 4 x PCI and 1 SBC slot.

- 30G resistance to mechanical shock and 5G vibration shock.

- Low EMI - FCC Class B compliance.

- Data protection with RAID1.

- PS2 ATX 500W hot swap redundant power supply 90 to 260VAC with complete protection: over current protection, short circuit protection, over voltage protection, fan failure protection

- Intelligent monitor software to monitor power input, power output, efficiency, and other internal records in real time and get the historical data up to 30 days.

- 80 PLUS® 230V Internal Gold Certification - operates at a minimum of 90% efficiency at 50% load of PSU rated power.

- Alarm guard design by smart power supply status LED indicator.

- Provision for easily replaceable washable front air filter.

- Two ball bearing front fans mounted on Air Chamber Support (TM) for optimal efficiency of air flow. Adaptive temperature controller is used to further lower acoustical noise and intake of dust when operating at "room" temperature.

- 24, 48, 125 and 250VDC input power options.

- For Windows 10, 8, 8.1 and 7

- 5 years warranty. with technical support for life.

7.5”

17”

14”

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Specifications

Processor
- Intel Xeon E3 or Core i5/i7 processors, up to 4.2GHz
- Supports Intel 14nm CPU
- Supports Intel Turbo Boost Technology 2.0 and Thermal Monitoring Technologies

Processor Socket
- LGA1151

Chipset
- Intel C236

Memory
- 2 x DIMM, max. 32GB DDR4-2133MHz ECC compatible memory
- Dual Channel Memory Architecture
-

BIOS
- AMI

Gigabit LAN
- 1 x Intel i219LM Gigabit LAN PHY
- 1 x Intel i211AT PCIe Gigabit LAN

Graphics
- GT2-530 Intel Integrated Graphics
- Display interface - Supports DVI-I, VGA, DVI-D
- Maximum shared memory of 1024MB

Storage
- 1TB - 6TB Seagate Enterprise hard drives with optional RAID 0, 1, 5, 10. Optional MLC/SLC industrial flash drives
- Supports Intel Smart Response Technology, Intel Rapid Storage Technology and Intel Optane Memory

Audio
- Intel C236 PCH built-in HD audio controller + Realtek ALC662 with 5.1 channel

I/O Ports
- 1 x DVI-I, 1 x VGA, 2 x LAN (RJ45), 3 x USB3.0, 2 x USB 2.0, 1 x RS232/422/485, 3 x RS232, 1 x PS/2 keyboard/mouse port

Watchdog Timer
- 256 levels (1 ~ 255sec/min)

Backplane Expansion Slots
- 10-slot PICMG 1.3
- 4 x PCIe x1, 1 x PCIe x16, 4 x PCI and 1 SBC slot

Power
- 500W PS2 ATX AC hot swap redundant power supply
- 24V, 48V, 125V and 250V DC input power options
- Monitor in real time by FSP Intelligent Monitor Windows software

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

Warranty: 5 years

Compliance
- UL, UL-C, FCC Class B and CE

Environmental
- Operating temperature: 0~50ºC (32~122ºF), 60ºC (140ºF) for 2 hours at 100% load
- Storage temperature: -10~85ºC (14~185ºF)
- 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"

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Page 2 of 4

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FSP Intelligent Monitor Software

FSP Guardian software to monitor power input, power output, efficiency, and other internal records in real time and get the historical data up to 30 days. When power input or output reaches the warning points during the process , FSP Guardian will immediately shows warning message to remind the latest situation of the TR-ORION power.
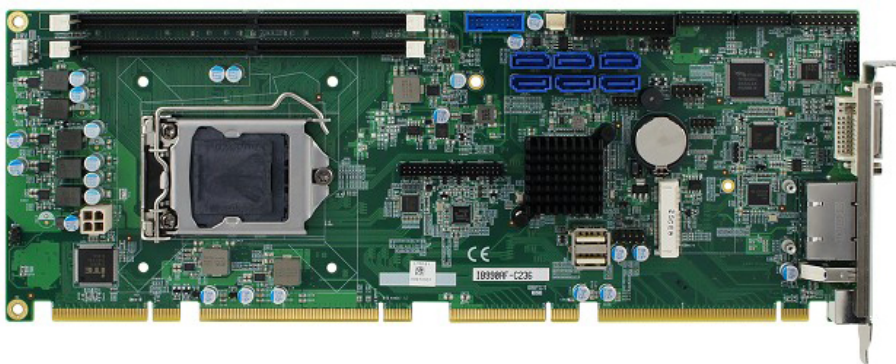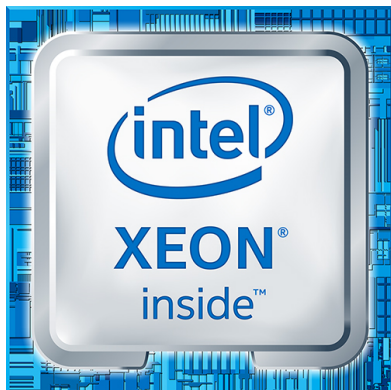

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Page 3 of 4

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Intel® Xeon® E3, Core™ i7/, Core™ i5 Processors Ready

The TR-ORION supports Intel® 7th Xeon® E3, Core™ i7/i5 processors in the LGA1151 package, with iGPU, memory and PCI Express controllers integrated to support onboard graphics output with dedicated chipsets, 2-channel (2 DIMM) DDR4 memory. This provides great graphics performance. These processors are among the most powerful and energy efficient CPUs in the world.

Order Checklist

TR-ORION computer with 500W redundant hot swap universal power supply, Logitech USB keyboard and nfrared mouse

☐ Intel i5 3.8GHz processor
☐ Intel i7 4.2GHz processor
☐ Intel Xeon E3 4.2GHz processor
☐ 8GB DDR4 memory
☐ 16GB DDR4 memory
☐ 32GB DDR4 memory
☐ 1 - 6TB TB server-class hard drive
☐ Industrial MLC or SLC 128GB flash drive
☐ SLIM CD-DVD-R/W
☐ RAID1 second drive
☐ Dual hot swap 500W 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 60ºC stress test
☐ Nuclear QA standard documentation
☐ Microsoft Windows 7, 8, 8.1 or 10 O/S

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Page 4 of 4