ERX-200 (Advantix - powered by Fastwel)
Intel® Core i7-4700EQ High-Performance Embedded Fanless Computer for Harshest Environments

Features

- CPU: Intel® Core i7-4700EQ (4 x cores with HT, 2.4/3.4 GHz);
- Chipset: Intel® QM87 (Intel® DH82QM87 PCH);
- RAM: 4 – 8GB, XR-DIMM with ECC;
- Cooling: convection, passive;
- GPU: integrated Intel HD Graphics 4600, dedicated nVIDIA GT730M 1GB (CUDA384), 4 x independent outputs;
- Network: 2 x Ethernet 10/100/1000 controllers: Intel® I210IT & i218-LM GbE;
- Operating temperature range: from -40°C to +70°C;
- Power supply: 9-36V DC;
- OS compatibility: Microsoft Windows 7, 8.1 (including Embedded), Linux;

Overview

Computers of the ERX series (Advantix – powered by Fastwel) are vibration resistant: all the components are either soldered, or rigidly fixed by screws to the motherboard. Additional expansion modules are supplied in the StackPC format (graphics card, additional LAN-ports, etc). MiniPCIe-slots have rigid fasteners. Also, if you need to install a high-capacity SSD to the devices of the ERX series (Advantix – powered by Fastwel), it is mounted into a hardfixed StackPC carrier-board. In this case, no wires are used and all connectors are soldered.

ERX series computers operate at full performance and at high and low temperatures: a specially designed convection cooling system with heat pipes removes heat to the upper and lower sides of the finned housing. Therefore, even a powerful Core i7 CPU works without loss of performance even at +70 degrees Celsius.

Technical Specifications

CPU
- Intel® Core i7-4700EQ (4 x cores with HT, 2.4/3.4 GHz), 6M Cache (47W);

Chipset
- Intel® QM87 (Intel® DH82QM87 PCH);

RAM
- 4 – 8 GB, XR-DIMM with ECC;

Video subsystem
- integrated Intel HD Graphics 4600, dedicated nVIDIA GT730M 1GB (CUDA384), 4 x independent outputs;

Expansion slots
- 2 x Mini PCIe;

Disk subsystem
- 1 x bay for 2.5" SSD SATA;
- 64GB soldered SSD;

Network
- 2 x Ethernet 10/100/1000 controllers: Intel® I210IT & i218-LM GbE;

Audio
- 2-channel, HD Audio;

Ports
Front panel:
- 2 x USB 3.0;
- 4 x DP;
Rear panel:
- 2 x USB 3.0;
- 1 x DVI;
- 2 x LAN (RJ-45);
- 1 x RS232/422/485;
- Audio Out/Mic In;

Watchdog
- programmable;

Power supply
- 9-36V DC;

Cooling
- Convection, passive;

Operating temperature range
- from -40°C to +70°C;

Dimensions
- 149 (D) * 308 (W) * 76 (H);

Weight
- 6.5 kg;

Version design
- Desktop or wall-mounting;

Color
- Grey;

Vibration / Shock resistance
MIL-STD-810G test:
- Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock);
- Method 516.6 Shock-Procedure I Operating (Mechanical Shock);
- Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration);
- Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration);

OS compatibility
- Microsoft Windows 7, 8.1 (including Embedded);
- Linux;

Warranty
- 2 years;

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Ordering information

ERX-200 (Advantix - powered by Fastwel) Configuration

ERX-200 \Options

Configurations

ERX-200-01	High-Performance Embedded Fanless Computer for Harshest Environments / Intel® Core i7-4700EQ (4 x cores with HT, 2.4/3.4 GHz) / 4 – 8 GB, XR-DIMM with ECC / integrated Intel HD Graphics 4600 or dedicated nVIDIA GT730M 1GB (CUDA384), temperature range: -40°C ~ +70°C;

Delivery checklist

ERX-200 (Advantix - powered by Fastwel) delivery checklist contains:

1. ERX-200 (Advantix – powered by Fastwel) High-Performance Embedded Fanless Computer for Harshest Environments
2. Packaging.

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