ERX-700 (Advantix - powered by Fastwel)
Intel® Core i7-4700EQ High-Performance Rugged Computer for Harshest Environments

Features

- CPU: Intel® Core i7-4700EQ (4 x cores w/ HT, 2.4/3.4 GHz);
- Chipset: Intel® QM87 (Intel® DH82QM87 PCH);
- RAM: 4 – 8 GB, XR-DIMM with ECC;
- Network: 2 x Ethernet 10/100/1000 controllers;
- GPU: integrated, Intel HD Graphics 4600, or nVIDIA GT730M 1GB (CUDA384), 4 x independent video outputs;
- Disk subsystem: 1 x bay for 2.5" SSD SATA; 64GB soldered, SSD and/or mSATA SSD;
- 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 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, up to 3 x independent video outputs, option: nVIDIA GT730M 1GB (CUDA384), 4 x independent video outputs;

Expansion slots
- 2 x Mini PCIe;

Disk subsystem
- 1 x bay for 2.5" SSD SATA;
- 64GB soldered, SSD and/or mSATA SSD;

Network
- 2 x Ethernet 10/100/1000 controllers: Intel® I210IT & i217LM GbE;

Audio
- 2 x channel, HD Audio, option;

Ports
- 2 x USB 2.0 (on a single M12 connector);
- 1 x VGA (M12);
- 2 x LAN (M12);
- 1 x RS232 (M12);
- Input power supply M12;

Watchdog
- Programmable;

Cooling
- Convection, passive;

Power supply
- 9-36V DC;

Enclosure protection
- IP65;

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

Dimensions
- 230 (D) * 350 (W) * 76 (H);

Weight
- 8 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;

Ordering information

ERX-700 (Advantix - powered by Fastwel) Configuration

ERX-700 \Options

Configurations

ERX-700-01   High-Performance Rugged 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 nVIDIA GT730M 1GB (CUDA384) (as option), -40°C ~ +70°C;

Delivery checklist

ERX-700 (Advantix - powered by Fastwel) delivery checklist contains:

1. ERX-700 (Advantix - powered by Fastwel) High-Performance Rugged Computer for Harshest Environments
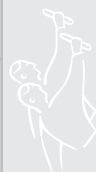2. Packaging.

Ver.1.05.2020

Corporate offices