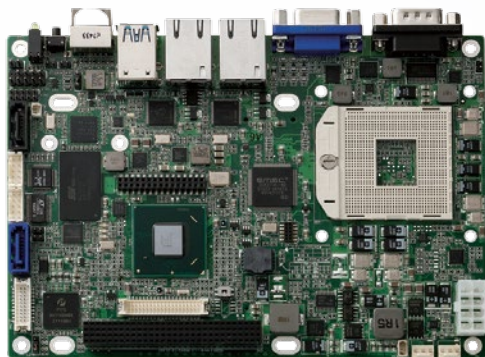


ReadyBoard™ 910

EPIC Single Board Computer with Intel® Core™ Processor



Features

- 2nd/3rd Generation Intel® Core™ i7/i5/i3 Processor
- Dual Gigabit Ethernet
- USB 3.0 with SuperSpeed 5Gb/s Data Transfer Rate
- Analog VGA, LVDS and DVI-D display
- PCI Express Mini Card socket, PCI-104 expansion
- Onboard SSD

Specifications

Core System

CPU	Intel® Core™ i7-3610QE, 2.3GHz, 6M L3 Cache, 45W TDP Intel® Core™ i5-3610ME, 2.7GHz, 3M L3 Cache, 35W TDP Intel® Core™ i3-3120ME, 2.4GHz, 3M L3 Cache, 35W TDP Intel® Core™ i7-2710QE, 2.1GHz, 6M LLC, 45W TDP Intel® Core™ i5-2510E, 2.5GHz, 3M LLC, 35W TDP Intel® Core™ i3-2330E, 2.2GHz, 3M LLC, 35W TDP Intel® Celeron® B810, 1.6GHz, 2M LLC, 35W TDP
Memory	Up to 16GB dual channel DDR3 1066/1333MHz SODIMM
Chipset	Intel® HM65 Platform Controller Hub
BIOS	AMI with CMOS backup in 32 Mbit SPI flash with ACPI 2.0 Supply voltages and CPU temperature
Hardware Monitor	AMI with CMOS backup in 32 Mbit SPI flash with ACPI 2.0 Supply voltages and CPU temperature
Expansion Buses	PCI-104, PCIe Mini Card

I/O Interfaces

SATA	2 devices
USB	2x USB 3.0 with 5Gb/s data transfer rate (faceplate) 2x USB 2.0 (onboard pin header)
Serial	2 configurable ports for RS-232/422/485
LED & Reset	Power, SATA active, reset button
Keyboard/Mouse	PS/2 interface
GPIO	4x GPI and 4x GPO
Audio	High Definition Audio; S/PDIF
Storage	Onboard SSD (default 4GB)

Ethernet

Dual Gigabit Ethernet (Intel® 82574IT controller)

Video

Integrated Intel® HD Graphics 4000 supporting dual independent displays Intel® Dynamic Video Memory Technology (DVMT 5.0) DirectX 10.1/11 and OpenGL 3.0/4.0	
Graphics Outputs	DVI-D: Resolution up to 1920 x 1200 @ 60Hz (WUXGA) VGA: Resolution up to 2048 x 1536 @ 60Hz (QXGA) LVDS: Dual-channel 24-bit LVDS; resolution up to 1920 x 1080 @ 60Hz

Power

Input Power	AT mode (12 V +/- 5%), ATX mode (12 V and 5 Vsb +/- 5%)
Power States	Supports S0, S1, S3, S4, S5

Mechanical and Environmental

Form Factor	EPIC
Dimensions	165.1 x 114.3 mm (6.5 x 4.5")
Board Thickness	2.36 mm (0.093")
Operating Temperature	Standard: 0°C to +60°C Industrial: -20°C to +80°C (35W CPU with fansink thermal module) -20°C to +70°C (35W CPU with passive heatsink)
Storage Temperature	-20°C to +75°C
Humidity	90% at +60°C

Operating Systems

Standard Support	Win 7, Windows XP, Linux
Extended Support (BSP)	Win XPe, WES 2009, WES 7, WEC 7, VxWorks 6.9, QNX 6.5

Ordering Information

Modules

Model Number	Description/Configuration
RB-910-S	ReadyBoard 910, PCI-104, HM65, Socket G2, 4GB on board SSD with fansink thermal module
RB-910-S-2710	ReadyBoard 910, PCI-104, HM65, Intel® Core™ i7-2710QE Processor, 4GB on board SSD, fansink thermal module
RB-910-L-2710	Quick Start Kit (Intel® Core™ i7-2710QE Processor, cable kit, 2GB RAM, QuickDrive, fansink thermal module)

Accessories

Model Number	Description/Configuration
DDR3 memory	Verified industrial grade 1GB, 2GB, 4GB, 8GB DDR3 SODIMM memory available

Mouser Electronics

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