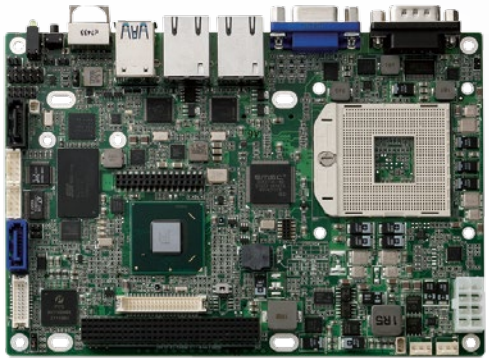
ReadyBoard™ 910

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
Hardware Monitor	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