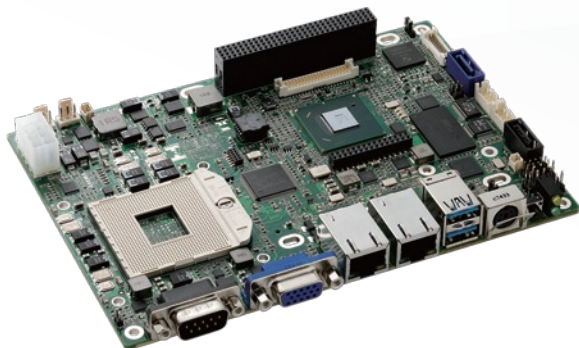


ReadyBoard™ 910

Intel® Core™ i7/i5 EPIC Single Board Computer



Features

- 2nd Generation Intel® Core™ i7/i5 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



Description

The Ampro by ADLINK™ ReadyBoard 910 integrates a 2nd Generation Intel® Core™ i7/i5/i3 or Celeron® processor (rPGA988B package, Socket G2), Mobile Intel® HM65 Express Chipset, onboard SSD, networking and robust I/O in a compact EPIC form factor suitable for transportation, self-service, digital signage, and video surveillance applications.

Specifications

Core System

CPU – 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

Hardware Monitor – Supply voltages and CPU temperature

Bus Interface

PCI-104, PCIe Mini Card

I/O

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)

Network Interface

Ethernet – Dual Gigabit Ethernet (Intel® 82574IT controller)

Video Interface

Integrated Intel® HD Graphics 3000 supporting dual independent displays

Intel® Dynamic Video Memory Technology (DVMT 5.0)

DirectX 10 and OpenGL 2.1

3 display ports:

DVI-D - Resolution up to 1920 x 1200 @ 60Hz (WUXGA)

VGA - Resolution up to 2048 x 1536 @ 60 Hz (QXGA)

LVDS - Dual-channel 24-bit LVDS; resolution up to 1920 x 1080 @ 60Hz

Software & Development Tools

OS Support – Linux, Windows® CE 6.0/XPe/7, VxWorks 6.6, QNX 6.4

BIOS – AMI with ACPI 2.0

Power Specifications

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

Size – 165.1 x 114.3 mm (6.5 x 4.5"); EPIC form factor

Board Thickness – .093" (2.36 mm)

Temperature

- Standard: 0°C to +60°C
- Extended: -20°C to +70°C
- Storage: -20°C to +75°C

Humidity – 90% at 60°C

Ordering Information

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