



Features

- ✔ Support Intel Atom D525 (Dual Core) and D425 (Single Core)
- ✔ 2 x DDR3 SO-DIMM, up to 4GB
- ✔ Selectable PCI & PCI Express x1 Expansion Slot
- ✔ mini-PCIe Expansion Slot
- ✔ Use JST connectors and switch to avoid cables drop
- ✔ Support Win XP, 7, Fedora 14 and Ubuntu 10

Specification

System

CPU	Intel Atom Dual Cores D525 and Single Core D425
Chipset	Intel ICH8M
Memory	<ul style="list-style-type: none"> • 2 x 200-pin SO-DIMM socket support 800MHz DDR3 • 1GB DDR3 pre-installed, up to 4GB

Video

Graphic Controller	Intel Atom D525/D425 integrated
Video Memory	DVMT 4.0
Video Interface	<ul style="list-style-type: none"> • 1 x VGA port (DB15) • 1 x 18-bit LVDS (Pin Header)

Storage

SATA	2 x SATA II port with SATA II power connector
CF	1 x Compact Flash Type I/II slot support UDMA 33
Disk Bay	1 x 2.5" SATA Disk Bay

Communication

Ethernet	2 x Gbps RJ45 with LED, Realtek RTL8111DL
USB	6 x USB2.0 (4 x external port, 2 x JST pin header)
Serial Port	<ul style="list-style-type: none"> • 3 x RS232 (DB9) • 1 x RS232/422/485 (DB9, switch selectable)

Expansion

AR-RS20	Riser Card (2 * PCI Express x1 expansion slots)
AR-RS21	Riser Card (1 x PCI + 1 x PCI Express *1 expansion slots)
miniPCIe	1 x miniPCIe

Other Feature

Audio	Realtek Audio Codec (Line-out & MIC)
Hardware Monitoring	CPU voltage and temperature
WatchDog Time Indicator	Software programmable 1~255 sec
Digital Input	4 x TTL input
Digital Output	4 x 500mA digital output

Power Requirement

Power Input	12V (+/-5%) single voltage input, 3 poles terminal block
Power adapter	100 ~ 240V, 100W power adapter
Power Consumption	-

Software

OS Support	Windows XP, Windows 7, Fedora 14, Ubuntu 10
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Mechanical & Environment

Thermal Design	Fanless
Chassis Material	SECC + Aluminum heatsink
Dimension (W x D x H)	280mm x 210mm x 127mm
Weight	2.5Kg
Operating Temp.	0~55°C (32~122°F)
Storage Temp.	-20~80°C (-4~176°F)
Relative Humidity	0 to 90% @ 40°C, non-condensing
Safety	CE, FCC class A

Packing List

- 1 x AR-ES6003FL
- 1GB memory pre-installed
- 1 x User manual & Driver CD
- 1 x AC Power Cord (USA or UK or Japan or Europe)
- 1 x 100W Power Adapter
- 1 x SATA cable & SATA power cable
- 2 x Mounting bracket
- 1 x AR-RS20 riser card
- 1 x AR-RS21 riser card

Optional (Purchase Separately)

WiFi Module	mini-PCIe card with RF cable and antenna
LVDS	LVDS cable

Ordering Information

AR-ES6003FLD525	Intel Atom D525 Embedded System with 1GB DDR3 memory, PCI and PCIe Expansion Slot
AR-ES6003FLD425	Intel Atom D425 Embedded System with 1GB DDR3 memory, PCI and PCIe Expansion Slot

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