

# AR-ES6003FL

Fanless and Dustproof Intel Atom D525/D425 Embedded System with PCI and PCIe Expansion Slot

Embedded System



## Features

- Support Intel Atom D525 (Dual Core) and D425 (Single Core)
- 2 x DDR3 SO-DIMM, up to 4GB
- Dedicated / 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

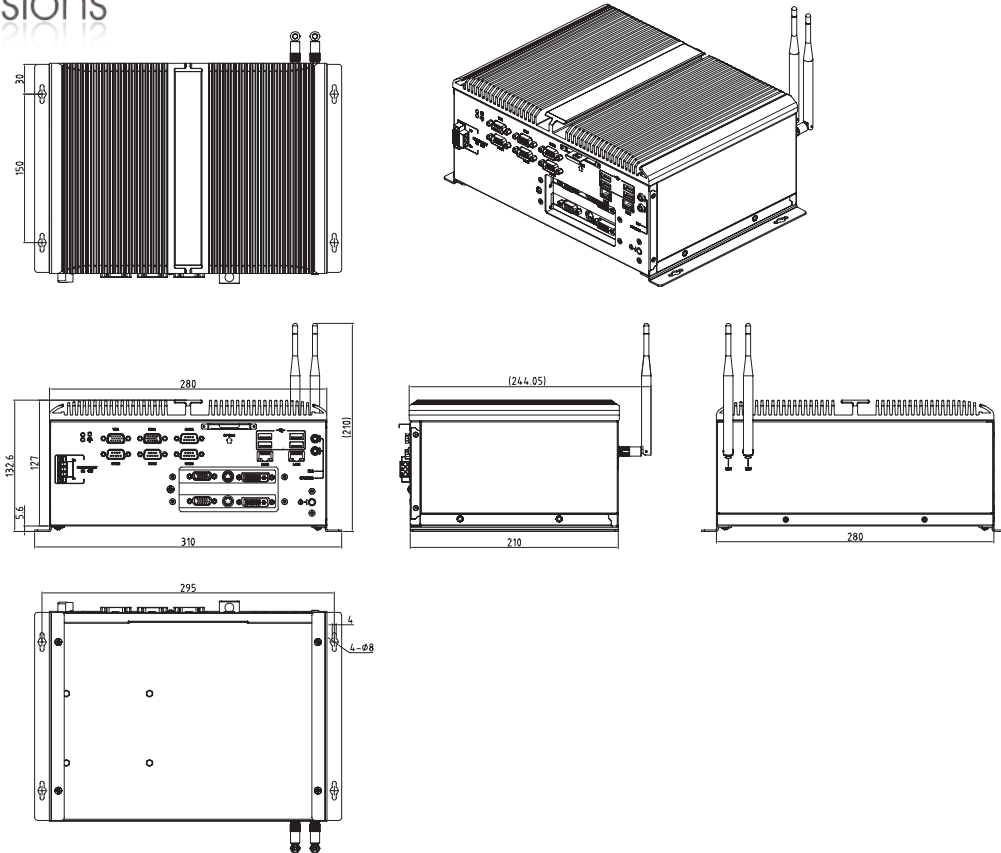


## Specification

System	
<b>CPU</b>	Intel Atom Dual Cores D525 and Single Core D425
<b>Chipset</b>	Intel ICH8M
<b>Memory</b>	<ul style="list-style-type: none"> <li>2 x 200-pin SO-DIMM socket support 800MHz DDR3 up to 4GB</li> <li>1GB DDR3 pre-installed</li> </ul>
Video	
<b>Graphic Controller</b>	Intel Atom D525/D425 integrated
<b>Video Memory</b>	DVMT 4.0
<b>Video Interface</b>	<ul style="list-style-type: none"> <li>1 x VGA port (DB15)</li> <li>1 x 18-bit LVDS (Pin Header)</li> </ul>
Storage	
<b>SATA</b>	2 x SATA II port with SATA II power connector
<b>CF</b>	1 x Compact Flash Type I/II slot support UDMA 33
<b>Disk Bay</b>	1 x 2.5" SATA Disk Bay
Communication	
<b>Ethernet</b>	2 x Gbps RJ45 with LED, Realtek RTL8111DL
<b>USB</b>	6 x USB2.0 (4 x external port, 2 x JST pin header)
<b>Serial Port</b>	<ul style="list-style-type: none"> <li>3 x RS232 (DB9)</li> <li>1 x RS232/422/485 (DB9, switch selectable)</li> </ul>
Expansion	
<b>AR-RS20</b>	Riser Card (2 * PCI Express x 1 expansion slots)
<b>AR-RS21</b>	Riser Card (1 * PCI + 1 * PCI Express x 1 expansion slots)
<b>miniPCIe</b>	1 x miniPCIe

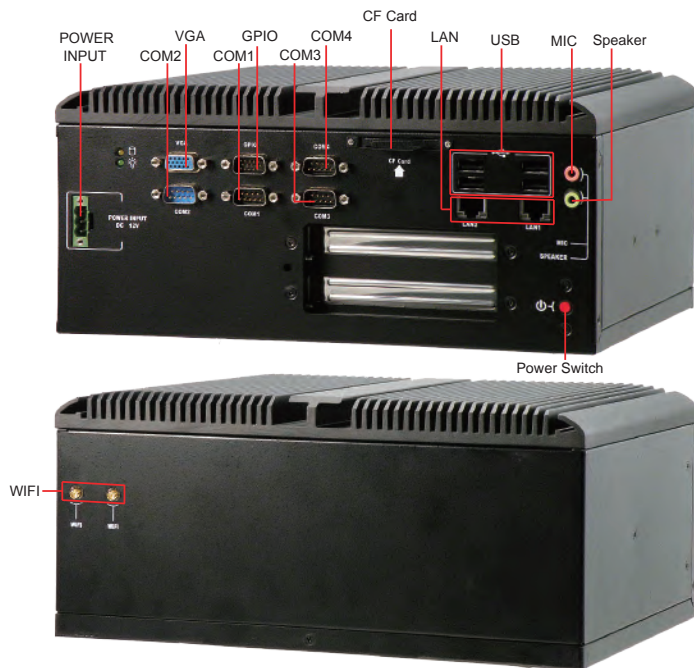
Other Feature	
<b>Audio</b>	Realtek Audio Codec (Line-out & MIC)
<b>Hardware Monitoring</b>	CPU voltage and temperature
<b>WatchDog Time</b>	Software programmable 1~255 sec
<b>Indicator</b>	Power and HDD LED
<b>Digital Input</b>	4 x TTL input
<b>Digital Output</b>	4 x 500mA digital output
Power Requirement	
<b>Power Input</b>	12V (+/-5%) single voltage input, 3 poles terminal block
<b>Power adapter</b>	100 ~ 240V, 96W power adapter
<b>Power Consumption</b>	32.6W @ 12V
Software	
<b>OS Support</b>	Windows XP, Windows 7, Fedora 14, Ubuntu 10
Mechanical & Environment	
<b>Thermal Design</b>	Fanless
<b>Chassis Material</b>	SECC + Aluminum heatsink
<b>Dimension (W x D x H)</b>	280mm x 210mm x 127mm
<b>Weight</b>	2.5Kg
<b>Operating Temp.</b>	0~55°C (32~131°F)
<b>Storage Temp.</b>	-20~80°C (-4~176°F)
<b>Relative Humidity</b>	0 to 90% @ 40°C, non-condensing
<b>Safety</b>	CE, FCC class B

# Dimensions



Embedded System

# I/O Connectors



## 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 96W 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

## 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

## Optional (Purchase Separately)

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