

ARES-63x3 Series

Robust, Fanless Box PC with Intel® Atom™ D525 Platform



Features

- **Fanless Design**
- Rugged Design for Shock/Vibration Protection
- Support 6 x LAN and 6 x Isolated Serial Ports
- RS-485 Auto-flow Function Supported
- Support Various Video Interfaces (Analog RGB, DVI-D)
- Support Optional WiFi or HSUPA Wireless Connection
- Easy Installation/Maintenance
- Intel® SSD Compatible

System

CPU	Soldered onboard Intel® Atom™ D525 1.8GHz processor
Memory	1 x 204-pin DDR3 SO-DIMM Socket, supporting 800MHz SDRAM up to 2GB
Chipset	Intel® ICH8M
Graphics	Integrated Intel® GMA3150
ATA	2 x Serial ATA ports with 300MB/s HDD transfer rate
LAN Chipset	4 x Realtek 8111 Gigabit Ethernet controllers 2 x Realtek 8100 10/100 Base-T Ethernet controllers
Watchdog Timer	1~255 levels reset

I/O

Serial Port	2 x DB-9 male connectors, 1 x 2x10 terminal block connectors Support 6 x RS-232 ports, all are isolated. (COM1~2 are RS-232, COM3~6 are RS-232/422/485 selectable)
USB Port	4 x USB 2.0 ports
LAN	2/4 x RJ-45 ports for Gigabit Ethernet (2 for ARES-6323; 4 for ARES-6343/6363) 2 x RJ-45 ports for 10/100 Base-T Ethernet (ARES-6363 only)
Video Port	1 x DB-15 female connector for Analog RGB 1 x DVI-D female connector for Digital Video output
Digital I/O	1 x 16-bit digital I/O, 8 in/8 out
Audio	Mic-in/Line-out/Line-in
Expansion Bus	1 x PCI slot & 1 x PCIe x1 slot or 2 PCI slots 1 x Mini-card slot coming along with SIM card socket for optional WiFi or HSUPA module 1 x SIM socket 1 x PCI104

Environmental

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow
Storage Temp.	-40 ~ 80°C (-40 ~ 176°F)

Relative Humidity	5 ~ 95% @ 40°C (non-condensing)
Vibration	2 g rms@IEC-68-2-34, random wave, 5~500 Hz, 1 hr per axis
Shock	Operating 20G (11ms)@IEC-68-2-27, half sine wave

Qualification

Certification	By Request: CCC (GB4943, GB9254, GB17625.1), EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 55024, RoHS, CRoHS, WEEE CE, FCC Class A
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Power Requirement

Power Input	DC 9~36V input (w/ 4-pin DC input terminal block combine remote power on/off switch)
Power Consumption	Max. 35W (w/o I/O card)

Storage

	2 x 2.5" drive bay for HDD/SSD
Type	1 x SATA port for SATA DOM 1 x 4GB NAND Flash, upgradable to 8GB

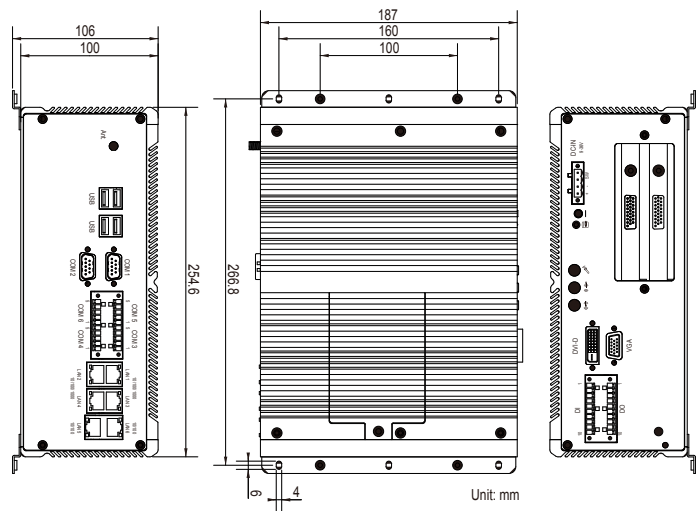
Mechanical

Construction	Aluminum alloy
Mounting	Support wall-mount
Weight	4 kg (8.8 lb)
Dimensions (W x D x H)	254 x 187 x 100 mm (10" x 7.36" x 3.93")

Ordering Information

ARES-6323-EP	Barebone system w/ 2 x LAN, PCI + PCIe w/o storage device, memory, COM port isolated
ARES-6323-2P	Barebone system w/ 2 x LAN, 2 x PCI w/o storage device, memory, COM port isolated
ARES-6343-EP	Barebone system w/ 4 x LAN, PCI + PCIe
ARES-6343-2P	Barebone system w/ 4 x LAN, 2 x PCI
ARES-6363-EP	Barebone system w/ 6 x LAN, PCI + PCIe
ARES-6363-2P	Barebone system w/ 6 x LAN, 2 x PCI

Dimensions



Optional Accessories

PAC-B120W-FSP
120W AC/DC adapter kit



PAC-B065W
65W AC/DC adapter kit

WMK-5000
Wall-mount kit for FPC-5XXX Series



Power Input	100 ~ 240 VAC
Power Output	19VDC, 6.32A, 120W
Power Input	100 ~ 240 VAC
Power Output	19VDC, 3.4A, 65W
Material	SPCC+Ni
Dimensions (W x D x H)	264 x 28.5 x 6 mm (10.39" x 1.12" x 0.23")

Optional Configuration (CTOS* Kit)

SSD-25040
Intel® 2.5" 40GB SATAII SSD kit



Brand/Type	Intel / 2.5 inch
Interface	SATAII
Capacity	40GB
Dimensions (W x D x H)	100.45 x 69.85 x 9.5 mm (3.95" x 2.75" x 0.37")

HSPA-SI1400



HSUPA 3.75G module kit & internal wiring

WIFI-IN1300



Intel® Centrino® Advanced-N 6205 WiFi module w/ 20cm internal wiring

ANT-H11



1 x 2dBi HSUPA antenna

ANT-D11

1 x WiFi Dual-band 2.4G/5G antenna

*CTOS means Configure to Order Service.

