

ERC-1004A

Low power fanless embedded PC with multi-COM ports



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Features

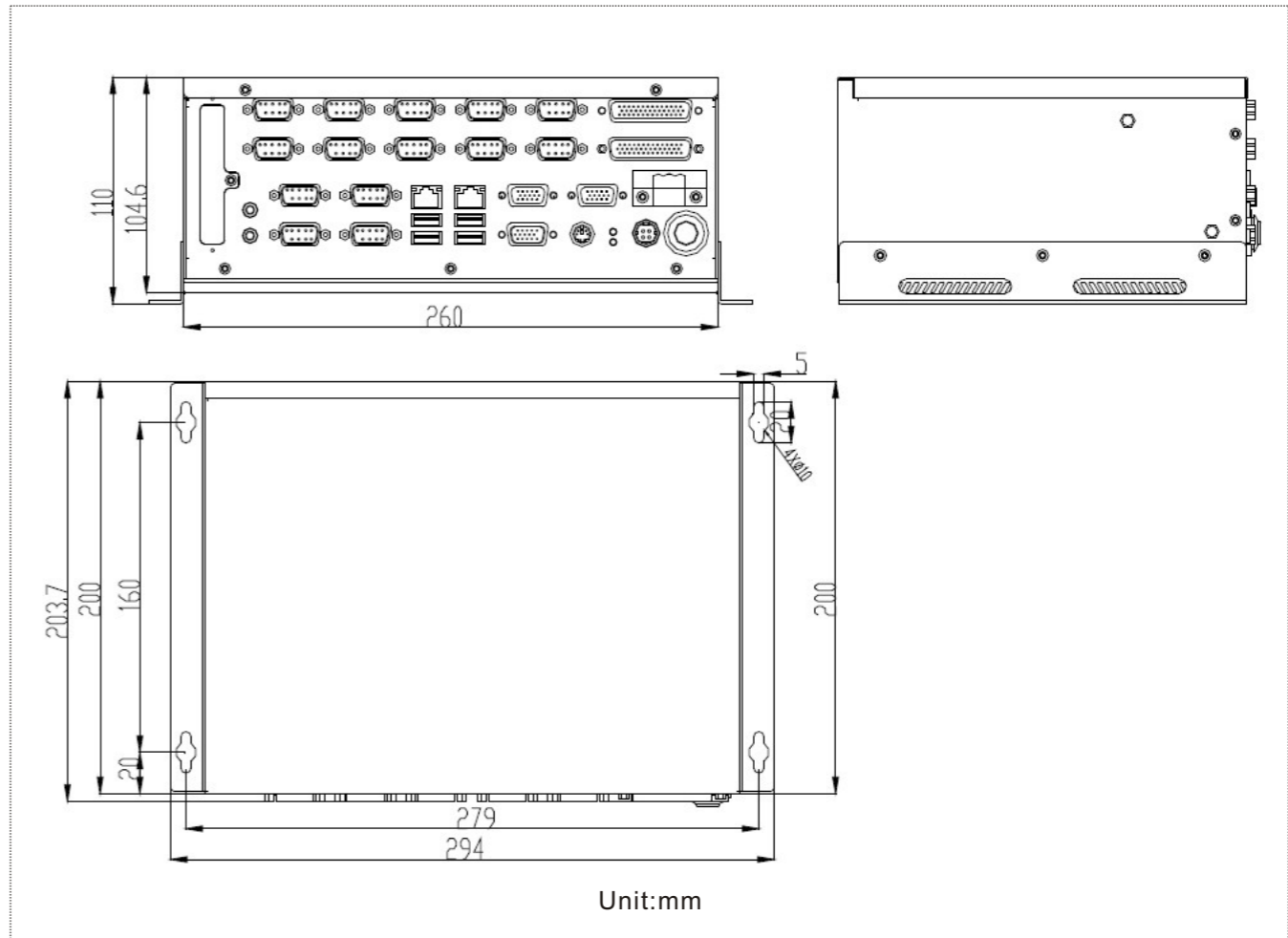
- Onboard Intel® ATOM™ D425 processor;
- 14 x COM port, dual VGA+LVDS display; 32-channel GPIO (supports optical isolation);
- 2 x 1000Mbps RJ45 network port (one supports Wake-On-LAN);
- Supports DC12V~24V or DC12V input, to meet power supply requirements of different users;
- Supports 512KB NVRAM;
- Adopts pin hole connectors, which ensures high reliability.

Specifications

System	
Processor	Onboard Intel® ATOM™ D425 processor
Chipset	Intel® ATOM™ D425 + ICH8M
Memory	Onboard DDR III 800MHZ 2G memory
Expansion Interface	PCI expansion
Storage	
IDE	N/A
Serial ATA	2 x Serial ATA 300MB/S interface
Floppy	N/A
CF	1 x CompactFlash Socket Type I/II (optional)
DOC/DOM	N/A
I/O Interface	
USB	6 x USB2.0 port
Serial Port	14 x RS-232 COM port, two of them are RS-232/422/485 port
Parallel Port	1 x LPT
IrDA	N/A
GPIO	32-channel GPIO; among them, 16-channel GPIO support optical isolation
Audio	One group of audio ports, supporting MIC-IN/LINE-OUT
Display	
Chipset	CPU integrated graphics controller display chip
Resolution	VGA1:1920 x 1080; VGA2&LVDS:1280 x 800
Dual Display	VGA+LVDS

Ethernet	
Chipset	2 x Realtek,RTL80111E
Speed	2 x 10/100/1000Mbps
Connector	2 x RJ45, LAN1 support Wake-On-LAN
Mechanical and Environmental	
Dimensions	105mm(H) x 260mm(W) x 201mm(D)
Reliability	MTBF ≥ 50000H; MTTR ≤ 30min
Operating Temperature	-20℃~70℃; (CF card, SSD) 0℃~40℃ (mechanical hard drive)
Storage Temperature	-40℃~80℃
Operating Humidity	5%~90% 40℃ (non-condensing)
Power	
Power Supply	Supports DC12V~24V wide voltage power input, and supports single DC12V input connector
Operating System	
Windows OS	Win XP
Embedded OS	Linux
Test	
Vibration	Amplitude 5-17Hz/1.0mm;Acceleration:17-200Hz/1.0g
Shock	10g peak acceleration(11ms duration)
EMC/EMI	GB4943-2001 Class A

Dimensions



Packing List

- 1 x User Manual /RoHS (P/N:2413-020381)
- 1 x CD/RoHS (P/N:2192-015191)

Ordering Information

Part Number	Model Number	Description
0010-041171	ERC-1004A-01	Low power fanless embedded PC/ATOM D425 1.8G/2G memory/14 x COM/1 x LPT/1 x PS/32-channel GPIO/2 x VGA/1 x LVDS/2 x LAN/ 1 group of Audio ports/6 x USB/512KB NVRAM/1G DOM/DC 12V input
0010-041321	ERC-1004A-02	Low power fanless embedded PC/ATOM D425 1.8G/2G memory/14 x COM/1 x LPT/1 x PS/32-channel opto-isolated GPIO/2 x VGA/1 x LVDS/ 2 x LAN/1 group of Audio ports/6 x USB/512KB NVRAM/1G DOM/DC 12V input/PCI expansion
0010-041331	ERC-1004A-03	Low power fanless embedded PC/ATOM D425 1.8G/2G memory/14 x COM/1 x LPT/1 x PS/32-channel GPIO/2 x VGA/1 x LVDS/2 x LAN/ 1 group of Audio ports/6 x USB/512KB NVRAM/1G DOM/4G CF/DC12V input
0010-041341	ERC-1004A-04	Low power fanless embedded PC/ATOM D425 1.8G/2G memory/14 x COM /1 x LPT/1 x PS/32-channel GPIO/2 x VGA/1 x LVDS/2 x LAN/ 1 group of Audio ports/6 x USB/512KB NVRAM/HDD 320G/4G CF/DC12~24V input

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