

# rBOX100

Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor Z510PT/ Z520PT up to 1.33 GHz, Intel® US15WPT Chipset and DIO (8 in/out)



Front view



Rear view

## Specifications

Standard Color	Sliver-Black
Construction	Extruded aluminum and heavy-duty steel, IP30
CPU	Intel® Atom™ processor Z510 PT (1.1 GHz) or Z520 PT (1.33 GHz)
System Board	RM820
System Memory	1 x 200-pin DDR2 SO-DIMM max. up to 2 GB
System I/O Outlet	2 x RS232/422/485 (COM 1/2) 1 x 10/100/1000Mbps Ethernet with Magnetic Isolation Protection & 1 x 10/100Mbps Ethernet with Magnetic Isolation Protection 2 x USB 2.0 1 x DIO (8 in/out) 1 x VGA 1 x DC power input with terminal block
Watchdog Timer	255 levels, 0 - 255 sec.
Storage	Supports 1 x CompactFlash™
Installation	Din-rail
Power Supply	12 ~ 48V <sub>dc</sub>
Operating Temperature	-40 °C ~ +70 °C (-40 °F ~ +158 °F)
Storage Temperature	-45 °C ~ +85 °C (-49 °F ~ +185 °F)
Humidity	5% ~ 95%
Weight (net/gross)	1.38 kg (3 lb)/1.72 kg (3.78 lb)
Dimensions	81 mm (3.18") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)
EOS Support	XPE, WinCE, Linux
ISO	Manufactured in an ISO9001 facility
Safety	UL508 EN60950-1 IEC60950-1
Safety Compliance	UL60950-1
EMI	FCC part 15, class A EN61000-6-4 * EN55022 * EN61000-3-2 * EN61000-3-3
EMS	EN61000-6-2 EN61000-4-2 (ESD standards) * Contact: +/- 6 KV; criteria B * Air: +/- 8 KV; criteria B EN61000-4-3 (radiated RFI standards) * 10V/m, 80 to 1000 MHz; 80% AM criteria A EN61000-4-4 (burst standards) * Signal ports: +/- 2 KV; criteria B * DC power ports: +/- 2 KV; criteria B EN61000-4-5 (surge standards) * Signal ports: +/- 1 KV; line-to-line; criteria B * DC power ports: +/- 0.5 KV; line-to-earth; criteria B EN61000-4-6 (induced RFI standards) * Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A * DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A EN61000-4-8 (magnetic field standards)



## Features

- Fanless operation
- Wide temperature operation of -40 °C ~ +70 °C
- Supports 2 COM ports, 2 USB ports, 1 DIO (8 in/out), VGA port
- Supports one 10/100/1000Mbps & one 10/100Mbps Ethernet with Magnetic Isolation Protection
- SNMP V1/V2c
- Support CompactFlash™
- Redundant power input with terminal block and 12 ~ 48VDC
- Supports AXView monitoring software package

Environmental Test	* 30 A/m @ 50, 60 Hz; criteria A IEC60068-2-6 Fc (vibration resistance)
Compliance	5 g @ 10 ~ 150 Hz, amplitude 0.35 mm (operation/storage/transport) IEC60068-2-27 Ea (shock) 25 g @ 11 ms (half-sine shock pulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport) IEC60068-2-32 Ed (free fall) 1 M (3.281ft)

## Power Protection

### DC Version

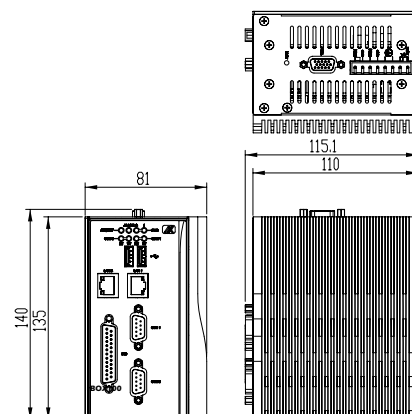
OVP (over voltage protection)	UVP (under voltage protection)
Reverse protection	

## Ordering Information

Standard	
rBOX100-FL 1.1G	Fanless embedded system with Intel® Atom™ processor Z510PT 1.1 GHz
rBOX100-FL 1.33G	Fanless embedded system with Intel® Atom™ processor Z520PT 1.33 GHz
Optional	
DDR2 SODIMM	1 GB ~ 2 GB (with W.T. memory)
DDR2 SODIMM	1 GB ~ 2 GB (with 0 °C ~ +85 °C memory; operating temperature: 0 °C ~ +70 °C)
CompactFlash™	1 GB or above (with W.T. CF)

\*Specifications and certifications are based on options and may vary.

## Dimension



\* All specifications and photos are subject to change without notice.  
© 2011 Axiomtek Co., Ltd. All rights reserved.

Overview

Embedded Systems

Embedded Systems for Transportation

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Industrial Workstations

Backplanes

Power Supplies

Peripherals & Accessories