

# rBOX104

Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor Z510PT/ Z520PT up to 1.33 GHz, Intel® US15WPT Chipset and 4-port PoE



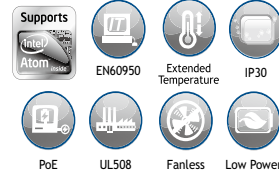
Front view



Rear view

## Specifications

Standard Color	Sliver-Black
Construction	Extruded aluminum and heavy-duty steel, IP30
CPU	Intel® Atom™ processor Z510PT (1.1 GHz) or Z520PT (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 RS-232/422/485 (COM 1/2) 1 x 10/100/1000Mbps Ethernet with Magnetic Isolation Protection 2 x USB 2.0 4 x PoE (IEEE802.3af) 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	48VDC
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) * 30 A/m @ 50, 60 Hz; criteria A



## Features

- Fanless operation
- Wide temperature operation of -40° C ~ +70° C
- Supports 4-port IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- Supports 2 COM ports, 2 USB ports and VGA port
- Supports one 10/100/1000Mbps Ethernet with Magnetic Isolation Protection
- SNMP V1/V2c
- Supports CompactFlash™
- 48VDC power input with terminal block
- Supports AXView monitoring software package

Environmental Test Compliance	IEC60068-2-6 Fc (vibration resistance) 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.)
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## Power Protection

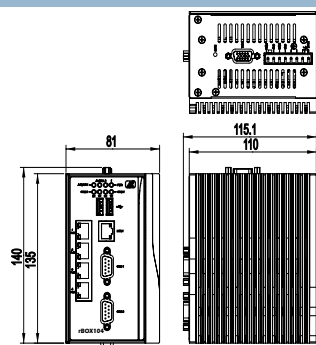
DC Version	OVP (over voltage protection)   UVP (under voltage protection)
Reverse protection	

## Ordering Information

Standard	
rBOX104-FL 1.1G	Robust Din-rail fanless embedded system with Intel® Atom™ processor Z510PT 1.1 GHz
rBOX104-FL 1.33G	Robust Din-rail 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



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660