

rBOX100

Industrial & Embedded Computers

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)













Embedded Field Controllers





Rear view

Specifications

Standard Color	Sliver-Black
Construction	Extruded aluminum and heary-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 Isolatio
	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 _{DC}
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 $^{\circ}$ C $^{\sim}$ +70 $^{\circ}$ C
- Supports 2 COM ports, 2 USB ports, 1 DIO (8 in/out),
- 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

	* 30 A/m @ 50, 60 Hz; criteria A
Invironmental Test	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)

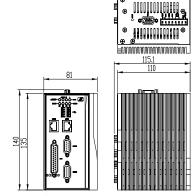
Power Protection

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)

Dimension



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