

rBOX100

Robust Din-rack Fanless Embedded System with Intel® Atom™ Processor Z510PT/Z520PT up to 1.3 GHz, Intel® US15WPT Chipset and DIO (8 in/out)



Front view



Rear view

Specifications

Standard Color	Sliver-Black
Construction	Aluminum extrusion and heavy-duty steel, IP30
CPU	Intel® Atom™ processor Z510 PT (1.1 GHz) or Z520 PT (1.3 GHz)
System Board	RM820
System Memory	1 x DDR2 SODIMM
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 ~ 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	1 kg (2.2 lb)
Dimensions	81 mm (3.18") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)
EOS Support	CE/XPE/Linux
ISO	Manufactured in an ISO9001 facility
Safety	UL1604 (Hazardous Locations: class 1, division 2 group A, B, C & D) UL508 UL60950-1 EN60950-1 IEC60950-1
EMI	FCC part 15, class A EN61000-6-4 * EN55022 * EN61000-3-2 * EN61000-3-3
MES	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: +/- 4 KV; criteria B * DC power ports: +/- 4 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

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 inputs with terminal block and 12 ~ 48VDC

	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
Environmental Test Compliance	IEC60068-2-6 Fc (vibration resistance) 5 g @ 10 ~ 150 KHz, 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)

Ordering information

rBOX100-FL-1.1G	Fanless embedded system with Intel® Atom™ processor Z510PT 1.1 GHz
rBOX100-FL-1.3G	Fanless embedded system with Intel® Atom™ processor Z520PT 1.3 GHz