# 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**

## Features

UL508    UL1604    Fanless    Low Power

- 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

## 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 SODIMM max. up to 2 GB |
| System I/O Outlet | 2 x RS232/422/485 (COM 1/2)<br>1 x 10/100/1000Mbps Ethernet with Magnetic Isolation Protection & 1 x 10/100Mbps Ethernet with Magnetic Isolation Protection<br>2 x USB 2.0<br>1 x DIO (8 in/out)<br>1 x VGA<br>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 (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 | UL1604 (Hazardous Locations: class 1, division 2 group A, B, C & D)<br>UL508<br>UL60950-1<br>EN60950-1<br>IEC60950-1 |
| EMI | FCC part 15, class A<br>EN61000-6-4<br>* EN55022<br>* EN61000-3-2<br>* EN61000-3-3 |
| EMS | EN61000-6-2<br>EN61000-4-2 (ESD standards)<br>* Contact: +/- 6 KV; criteria B<br>* Air: +/- 8 KV; criteria B<br>EN61000-4-3 (radiated RFI standards)<br>* 10V/m, 80 to 1000 MHz; 80% AM criteria A<br>EN61000-4-4 (burst standards)<br>* Signal ports: +/- 4 KV; criteria B<br>* DC power ports: +/- 4 KV; criteria B<br>EN61000-4-5 (surge standards)<br>* Signal ports: +/- 1 KV; line-to-line; criteria B<br>* DC power ports: +/- 0.5 KV; line-to-earth; criteria B<br>EN61000-4-6 (induced RFI standards)<br>* Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A<br>* DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A |

| Environmental Test Compliance | EN61000-4-8 (magnetic field standards)<br>* 30 A/m @ 50, 60 Hz; criteria A<br>IEC60068-2-6 Fc (vibration resistance)<br>5 g @ 10 ~ 150 Hz, amplitude 0.35 mm (operation/storage/transport)<br>IEC60068-2-27 Ea (shock) 25 g @ 11 ms (half-sine shock pulse; operation);<br>50 g @ 11 ms (half-sine shock pulse; storage/transport)<br>IEC60068-2-32 Ed (free fall) 1 M (3.281ft) |
|---|---|

## 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) |
| CompactFlash™ | 1 GB or above (with W.T. CF) |

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

## Dimension

115.1
110
81
140
135

* All specifications and photos are subject to change without notice.