

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 - 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) |

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 Compliance | * 30 A/m @ 50, 60 Hz; criteria A 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) |
|-------------------------------|--|

Power Protection

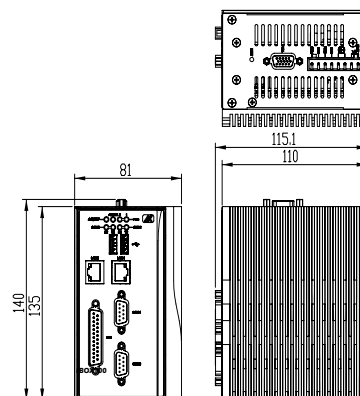
| | |
|-------------------------------|--------------------------------|
| DC Version | |
| OVP (over voltage protection) | UVP (under voltage protection) |
| Reverse protection | |

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.
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