

# QBOX-2020

Fanless Box PC with Intel Atom N270 CPU



- Intel Ultra Low Power Atom N270 CPU Onboard
- Dual Display Output (VGA and DVI-D)
- Support Embedded OS (Windows XPe and Linux)
- Dual Intel Gigabit Ethernet and 3 x RS-232
- Wide Range Operating Temperature -20~60°C
- Ultra Slim(35mm), Compact Size and Fanless
- DC 12V Power Input
- CF Socket

## Product Overview

The QBOX-2020 is a fan-less Box PC which is ideal for space critical applications. This embedded hardware platform is designed with Intel® Atom N270 Processor which provides with excellent performance enabled by next-generation 45nm Process Technology. The system is supported with Intel® 945GSE / ICH7-M chipset, and DDR2 SO-DIMM up to 2GB. Featured are an 2.5" SATA HDD or SSD and 1x Internal

Compact Flash Type II slot, 2 x GbE, 4 x USB 2.0, DVI-I, 2x COMs, GPIO, Audio ports, 1 x Mini-Card Slot. The QBOX-2020 provides high reliability rugged case not only for great protection from EMI, cold and heat, but also integrated with passive cooling design for quiet fan-less operation such as Transportation, Surveillance and Automation.

## Technical Information

<b>Construction</b>	
Aluminum Alloy	
<b>CPU</b>	
Intel® Atom N270 1.6 GHz Processor with 533 MHz FSB	
<b>Chipset</b>	
945GSE / ICH7-M	
<b>Memory</b>	
1 x DDRII-533 SO-DIMM Up to 2GB	
<b>Graphics</b>	
Integrated Intel® GMA950 GfX Core in 945GSE MCH	
<b>ATA</b>	
1x 2.5" SATA HDD or 1x Internal Compact Flash Type II slot	
<b>LAN</b>	
2 x Intel® 82574L Gigabit Ethernet	
<b>Watchdog</b>	
1 ~ 255 Level Reset	
<b>I/O</b>	
COM	Support 2 x RS-232 and 1 x RS-232/422/485 Ports
USB	4 x USB 2.0 Ports
LAN	2 x RJ-45 for GbE
Video	1 x DVI-I female connector for DVI-D and VGA Output
GPIO	Support 4 in and 4 out GPIO ports (share with 1 x RS-232)
Audio	Mic-in/Line-out
Expansion	1 x Mini-card slot

<b>Storage</b>	
1 x 2.5" drive bay for SATA Type Hard Disk Drive/SSD 1 x CF Socket	
<b>Cooling</b>	
Fanless	
<b>Environment</b>	
Operating Temp: -20°C to 60°C, ambient w/air Storage Temp: -20°C to 80°C Relative Humidity: 10~95%@40°C (non-condensing) Vibration: Mil-STD-810F, Method 514.5, Procedure 1, Category 4 Shock & Crash: Operating 20G(11ms), Non-Operating 60G with HDD Operating 40G(11ms), Non-Operating 80G with CF/SSD Crash 100G(11ms) Power Input: DC 12V Input	
<b>Dimensions</b>	
182 x 167.6 x 35 mm (LxWxH)	
<b>Weight</b>	
960 g (bare-bone)	
<b>Mounting</b>	
Wall mount, VESA mount	
<b>Certifications</b>	
CE, FCC	