

# QBOX-2050

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 5 x RS-232
- Wide Range Operating Temperature -20~60°C
- Ultra Slim(35mm), Compact Size and Fanless
- DC 12V Power Input

## Product Overview

The QBOX-2050 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**, 2 x GbE and

2 x USB 2.0, DVI-I, 5x COMs, GPIO, Audio ports, 1 x Mini-Card Slot.

The QBOX-2050 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

Construction	
Aluminum Alloy	
CPU	
Intel® Atom N270 1.6 GHz Processor with 533 MHz FSB	
Chipset	
945GSE / ICH7-M	
Memory	
1 x DDRII-533 SO-DIMM Up to 2GB	
Graphics	
Integrated Intel® GMA950 GfX Core in 945GSE MCH	
ATA	
1 x Serial ATA port with 150MB/s HDD transfer rate	
LAN	
2 x Intel® 82574L Gigabit Ethernet	
Watchdog	
1 ~ 255 Level Reset	
I/O	
COM	Support 4 x RS-232 and 1 x RS-232/422/485 Ports
USB	2 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

Storage	
1 x 2.5" drive bay for SATA Type Hard Disk Drive/SSD	
Cooling	
Fanless	
Environment	
Operating Temp: -20°C to 60°C, ambient w/air	
Storage Temp: -40°C to 85°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	
Dimensions	
182 x 136 x 35 mm (LxWxH)	
Weight	
810 g (bare-bone)	
Mounting	
Wall mount, VESA mount	
Certifications	
CE, FCC	

## QBOX-2050 I/Os

