

QBOX-2072 Series

Standard / Extended Temperature
Fanless Box PC
with Intel® Bay Trail Processor



- Intel® Bay Trail Processor, Celeron® J1900 / Atom™ E3845
- 1x DDR3L SODIMM
- 1x VGA, 1x HDMI for video output
- 2x GbE LAN for Ethernet
- 1x USB3.0, 4x USB2.0, 4x COM, 1x DIO for peripherals
- 1x 2.5" SATA HDD / SSD for storage
- 2x mPCIe (1x shared with mSATA) for expansion
- Fanless ventless design
- Extended temperature model available: -20°C ~ 70°C



Product Overview

The QBOX-2072 Series is a fanless BOX PC ideal for space critical applications. This embedded hardware platform is designed with Intel® Bay Trail Processor, Celeron J1900 / Atom E3845 which provides with excellent performance. The system is supported with DDR3L SO-DIMM up to 8GB. Featured are 1x 2.5" SATA HDD / SSD, 2x mini-PCIe slots, 2x GbE, 4x USB 2.0, 1x USB3.0, 1x HDMI, 4xCOM, 1x VGA, and 1x DIO.

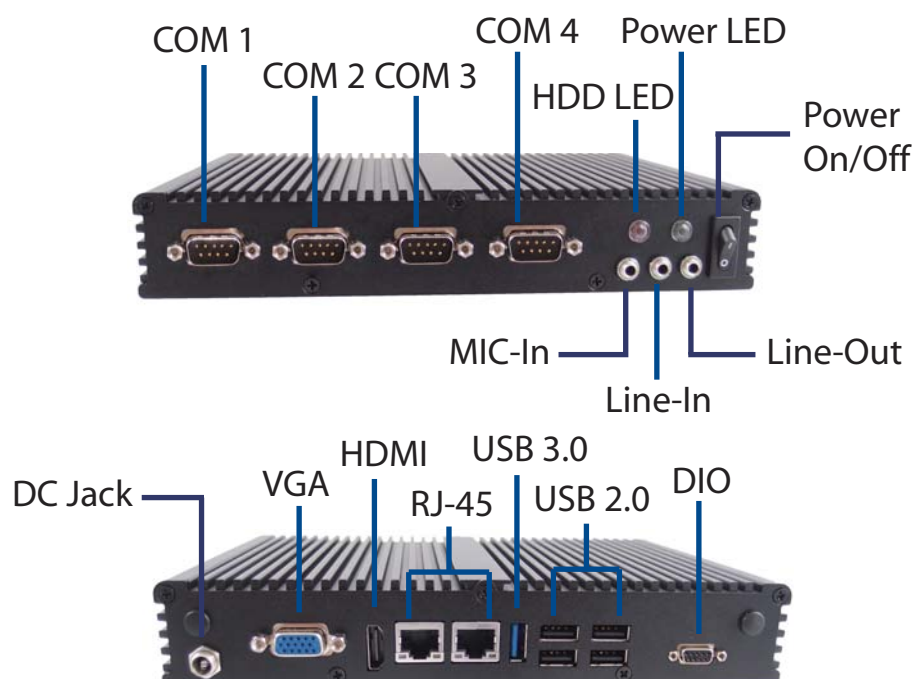
The QBOX-2072 Series provides high reliability rugged case not only for great protection from EMI, cold and heat, but also integrated with passive cooling design for quiet fanless operation such as Transportation, Surveillance and Automation. In addition, an extended temperature model is available for extreme temperature conditions.

Technical Information

CPU Support
QBOX-2072: Intel® Celeron® J1900 (Quad Core, 2M Cache, up to 2.42 GHz, FCBGA1170 socket, 10W TDP)
QBOX-207T: Intel® Atom™ E3845 (Quad Core, 2M Cache, 1.91 GHz, FCBGA1170 socket, 10W TDP)
Memory
1x DDR3L 1333 MT/S SO-DIMM up to 8GB
Graphic Controller
Intel® HD Graphics
Display Interfaces
1x HDMI (on rear, 1920 x 1080 @ 60Hz)
1x VGA (on rear, 2560 x 1600 @ 60Hz)
Multiple Display
Dual Display
Audio Chipset
Realtek ALC662
Audio Interfaces
1x Line-in (on front)
1x Line-out (on front)
1x Mic-in (on front)
Ethernet
2x GbE LAN (RJ-45 on rear, 1x Intel® I210-AT, 1x Realtek RTL8111G)
USB
1x USB3.0 (Type A on rear)
4x USB2.0 (Type A on rear)
Serial Ports
2x RS-232/422/485 (DB9 on front)
2x RS-232 (DB9 on front)
Other I/O Ports
1x DIO (DB9 Female on rear)
Storage & Expansion
1x 2.5" SATA HDD / SSD
1x mSATA / mPCIe (full size)
1x mPCIe (full size)
1x SIM Card Cage (optional)

Power Supply
Connector: Lockable DC Jack (on rear)
Input Voltage: DC 12V
Power Adapter: AC to DC, 100V ~ 240V
Firmware
BIOS: AMI uEFI BIOS w/ 64Mb SPI Flash
Watchdog: Programmable WDT to generate system reset event
H/W Monitor: Voltages, Temperatures
Real Time Clock: SoC integrated RTC
TPM: optional for QBOX-2072 (Infineon SLB 9635 TPM 1.2)
System Control & Monitoring
1x Power Switch (on front)
1x Power LED (on front)
1x Storage LED (on front)
Cooling
Fanless
OS Support
Windows 7, Windows 8, Linux
Construction
Aluminum Chassis
Dimensions (W x D x H)
210 x 135 x 35 mm / 8.27" x 5.31" x 1.38"
Weight
1200 g / 2.65 lb
Environmental Characteristics
Operation Temp.: 0°C ~ 50°C / 32°F ~ 122°F (Standard)
-20°C ~ 70°C / -4°F ~ 158°F (Extended)
Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F
Humidity: 0% ~ 90%
Mounting
VESA Mount
Certification
CE, FCC Class A

QBOX-2072 Series I/Os



Ordering Information

Article	Part No.	Description
QBOX-2072	SQBX207200010T00	Intel® Celeron® J1900, 1x HDMI, 1x VGA, 2x LAN, 1x USB3.0, 4x USB2.0, 2x RS-232, 2x RS-232/422/485, 1x DIO, 1x mSATA/mPCIe, 1x mPCIe, Op. Temp.: 0°C ~ 50°C
QBOX-207T	SQBX207T00010T00	Intel® Atom™ E3845, 1x HDMI, 1x VGA, 2x LAN, 1x USB3.0, 4x USB2.0, 2x RS-232, 2x RS-232/422/485, 1x DIO, 1x mSATA/mPCIe, 1x mPCIe, Op. Temp.: -20°C ~ 70°C