

QBOX-1700 Series

0.6-Liter Fanless Box PC with
Intel® Bay Trail SoC Processors



- Intel® Bay Trail SoC Processors
- 1x DDR3L SO-DIMM memory socket
- 1x HDMI, 1x VGA for video output
- 1x GbE LAN for Ethernet
- 1x USB3.0, 2x USB2.0, 1x RS-232/422/485 for peripherals
- 1x 2.5" SATA HDD / SSD, 1x Micro SD Cage (E3825 model only) for storage
- 1x mPCIe for expansion
- Fanless design



Product Overview

The QBOX-1700 Series is a fanless box PC with a volume of just 0.6-liter that is ideal for space critical applications. This embedded hardware platform is designed with Intel® Bay Trail processors which provide a balanced solution of both performance and energy efficiency.

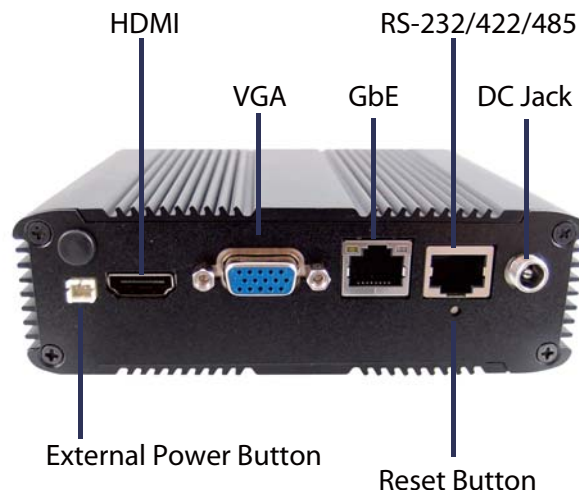
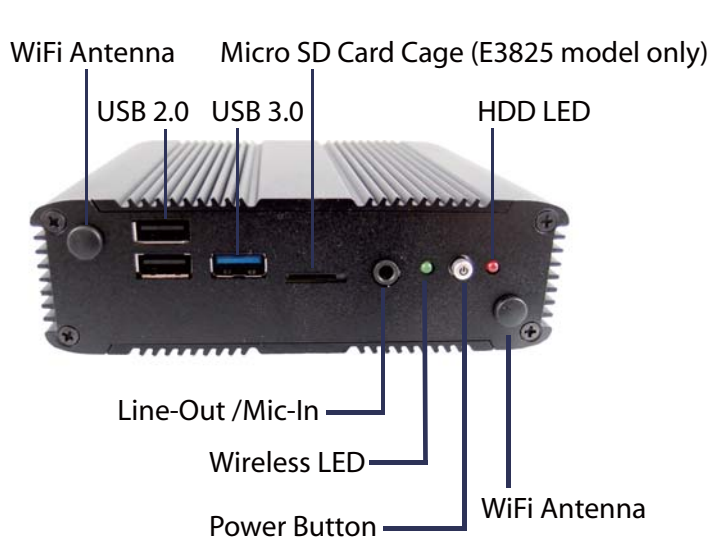
The system is supported with one DDR3L SO-DIMM memory socket. Featured are 2.5" SATA HDD / SSD, Micro SD (E3825 model only), GbE, USB3.0, 2x USB2.0, VGA, HDMI, RS-232/422/485.

Technical Information

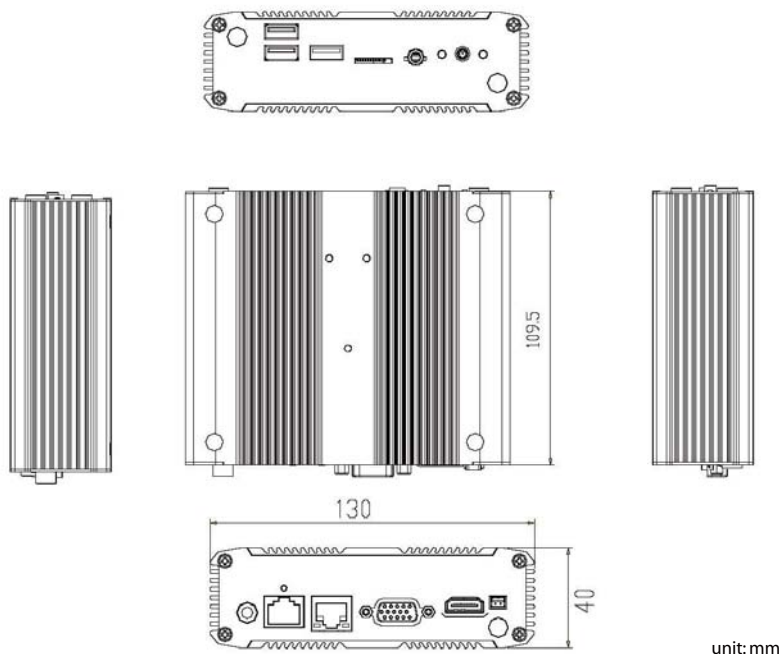
CPU Support
Intel® Atom™ E3825 (Dual Core, 1M Cache, 1.33 GHz, FCBGA1170, 6W TDP)
Intel® Celeron® N2930 (Quad Core, 2M Cache, up to 2.16 GHz, FCBGA1170, 7.5W TDP)
Memory
1x DDR3L 1067 SO-DIMM up to 4GB (E3825)
1x DDR3L 1333 SO-DIMM up to 8GB (N2930)
Graphic Controller
Intel® HD Graphics
Display Interfaces
1x HDMI (on rear, 1920 x 1080 @ 60Hz)
1x VGA (on rear, 2560 x 1600 @ 60Hz)
Multiple Display
Dual
Audio Chipset
Realtek ALC662
Audio Interfaces
1x Line-out / Mic-in (on front)
Ethernet
1x GbE LAN (RJ-45 on rear, Realtek RTL8111G)
USB
1x USB3.0 (Type A on front)
2x USB2.0 (Type A on front)
Serial Ports
1x RS-232/422/485 (RJ-45 on rear)
Storage & Expansion
1x 2.5" SATA HDD / SSD
1x Micro SD Cage (on front, E3825 model only)
1x mPCIe (full size)
1x SIM Card Cage (optional)

Power Supply
Connector: Lockable DC Jack (on rear)
Input Voltage: DC 19V
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 (Infineon SLB 9635 TPM 1.2)
System Control & Monitoring
1x Power Button w/ LED (on front)
1x Reset Button (on rear)
1x External Power Button (on rear)
1x Storage LED (on front)
1x Wireless LED (on front)
Cooling
Passive
OS Support
Windows 7, Windows 8, Linux
Construction
Aluminum Chassis
Dimensions (W x D x H)
130 x 110 x 40 mm / 5.12" x 4.33" x 1.57"
Weight
750 g / 1.65 lb
Environmental Characteristics
Operation Temp.: 0°C ~ 50°C / 32°F ~ 122°F
Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F
Humidity: 0% ~ 90%
Mounting
VESA Mount, DIN-Rail Mount
Certification
CE, FCC Class A

Front & Rear I/O Panels



Mechanical Dimensions



Ordering Information

Article	Description
QBOX-1700	Intel® Atom™ E3825, 1x DDR3L SO-DIMM, 1x HDMI, 1x VGA, 1x GbE, 1x USB3.0, 2x USB2.0, 1x RS-232/422/485, 1x 2.5" SATA HDD / SSD, 1x Micro SD Cage, 1x mPCIe
QBOX-1710	Intel® Celeron® N2930, 1x DDR3L SO-DIMM, 1x HDMI, 1x VGA, 1x GbE, 1x USB3.0, 2x USB2.0, 1x RS-232/422/485, 1x 2.5" SATA HDD / SSD, 1x mPCIe

Optional Accessories

Product Name	Description
VEESA Mounting Kit	Hole pattern: 75 mm x 75 mm & 100 mm x 100 mm
DIN Rail Kit	