



QBOX-300S

Preliminary

Fanless Mini Box PC

with Intel® Apollo Lake / Apollo Lake-I SoC Processor



- Intel® Apollo Lake / Apollo Lake-I SoC Processor
- 2x DDR3L SO-DIMM Socket
- 2x HDMI for video output
- 2x GbE LAN for Ethernet
- 4x USB3.0, 2x RS-232/422/485 for peripheral connection
- 1x Micro SD Cage, 1x mPCIe, 2x M.2 for expansion
- Fanless and ventless design



Product Overview

QBOX-300S is a fanless box PC based on low-power Intel® Apollo Lake SoC Processor, ideal for entry-level computer or intelligent digital display. In addition to 2x HDMI, 2x GbE LAN, 4x USB3.0 and 2x RS-232/422/485 for display

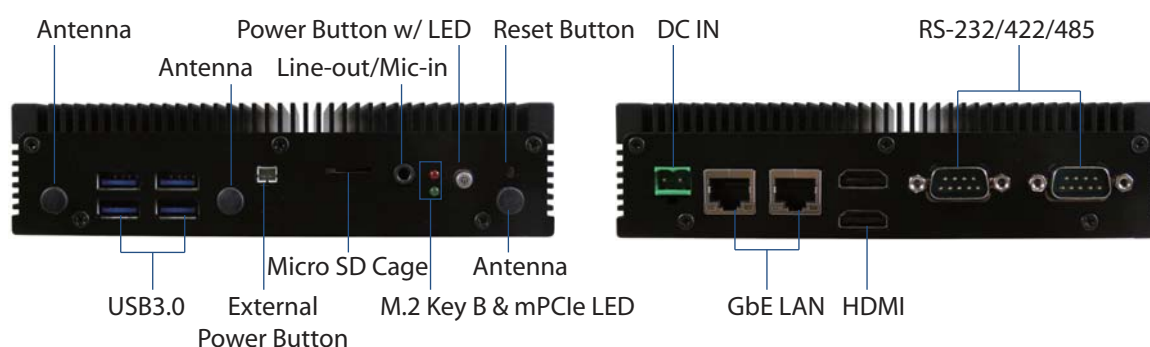
output, Ethernet and peripheral connection, QBOX-300S has 1x mPCIe, 1x M.2 Key A and 1x M.2 Key B, allowing users to expand wireless connection, storage and other functionality.

Technical Information

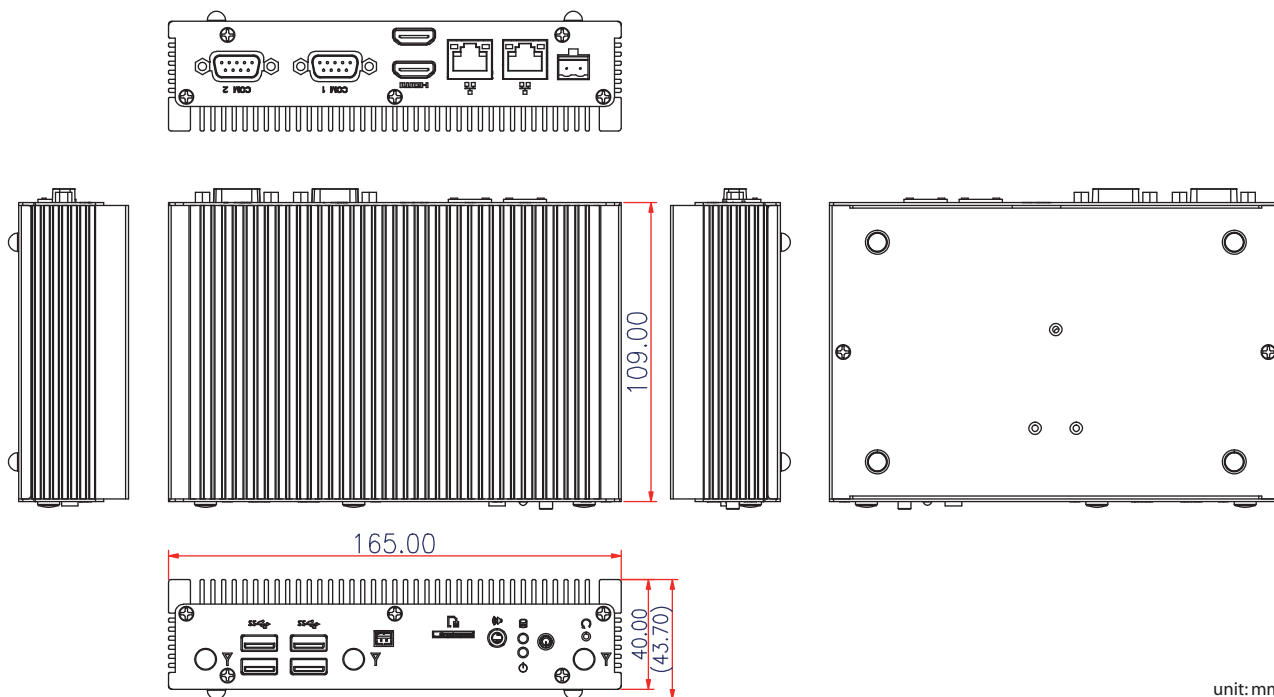
CPU Support
Intel® Apollo Lake / Apollo Lake-I SoC Processor
Memory
2x DDR3L 1867 SO-DIMM up to 16GB non-ECC
Display Interfaces
2x HDMI 1.4b (on rear)
Audio Chipset
Realtek ALC662
Audio Interfaces
1x Line-out/Mic-in (on front)
Ethernet
2x GbE LAN (RJ-45 on rear, Intel® I210)
USB
4x USB3.0 (Type A on front)
Serial Ports
2x RS-232/422/485 (DB9 on rear)
Storage & Expansion
1x Micro SD Cage (on front)
1x mPCIe (mixed with with USB2.0, SATA & PCIe)
1x M.2 Key A (mixed with mPCIe)
1x M.2 Key B (mixed with USB2.0 & SATA)
1x Micro SIM Card Cage (switch for M.2 Key B & mPCIe)
Power Supply
Connector: Phoenix Connector (on rear)
Input Voltage: DC 9V ~ 24V
Power Adapter: AC to DC, 100V ~ 240V

Firmware
BIOS: AMI uEFI BIOS w/ 128Mb SPI Flash
Watchdog: Programmable WDT to generate system reset event
H/W Monitor: Voltages, Temperatures
Real Time Clock: SoC integrated RTC
TPM: optional (Infineon SLB9665 TPM 2.0)
System Control & Monitoring
1x Power Button w/ LED (on front)
1x Reset Button (on front)
1x External Power Button (on front)
1x M.2 Key B Activity LED (on front)
1x mPCIe Activity LED (on front)
Cooling
Passive
OS Support
Windows 10, Linux
Construction
Aluminum Chassis
Dimensions (W x D x H)
165 x 109 x 40 mm / 6.50" x 4.29" x 1.57"
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
Certification
CE, FCC Class A

QBOX-300S I/Os



Mechanical Dimensions



unit: mm