

QDSP-7000 Series

Preliminary

Fanless Digital Signage Player
with 6th / 7th Gen. Intel® Skylake / Kaby Lake ULT Processors



- 6th / 7th Gen. Intel® Skylake / Kaby Lake ULT Processors (15W TDP)
- 2x DDR4 2133 SO-DIMM up to 32GB
- 1x 2.5" SATA3.0 HDD / SSD for storage
- Intel® HD Graphics 520 / 620 integrated
- 1x HDMI2.0, 1x DP for video output
- 2x LAN, 1x mPCIe, 1x M.2 for network connection and expansion
- 1x USB3.1 (Type C), 4x USB3.0, 2x RS-232/422/485, 1x DIO for peripherals
- Fanless and ventless design



Product Overview

Power by 6th / 7th Generation Intel® Skylake / Kaby Lake ULT Processors, QDSP-7000 Series is a fanless box PC that can deliver excellent processing and graphical performance to respond to the requirements for the state-of-the-art applications. Equipped with 1x HDMI2.0, it supports 4K resolution, higher data rate, wider bandwidth and ultra-wide display, making it an ideal platform for digital signage or audio / video data intensive applications

It has 1x 2.5" SATA3.0 HDD / SSD and 1x USB3.1 supported, allowing double read / write and transfer speed. In addition, a M.2 socket enables multi-functional integration, such as Wi-Fi, Bluetooth, satellite navigation, NFC, digital radio, WiGig, WWAN and SSDs.

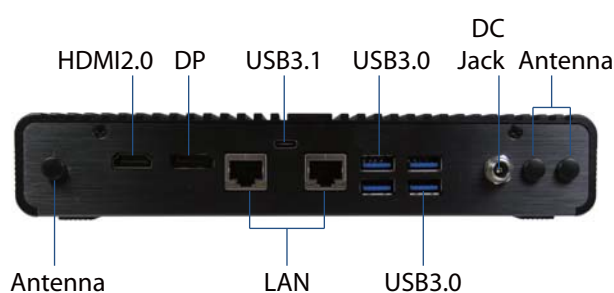
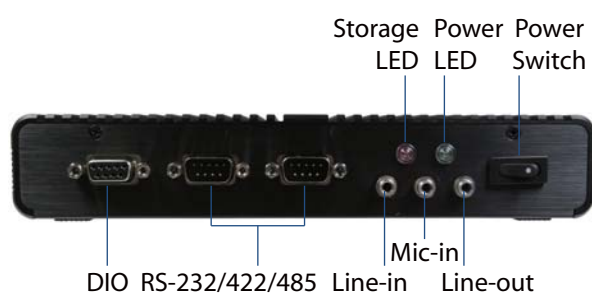
Finally, it is enclosed within a rugged ventless aluminium chassis, allowing it installed outside without fear of dust ingress.

Technical Information

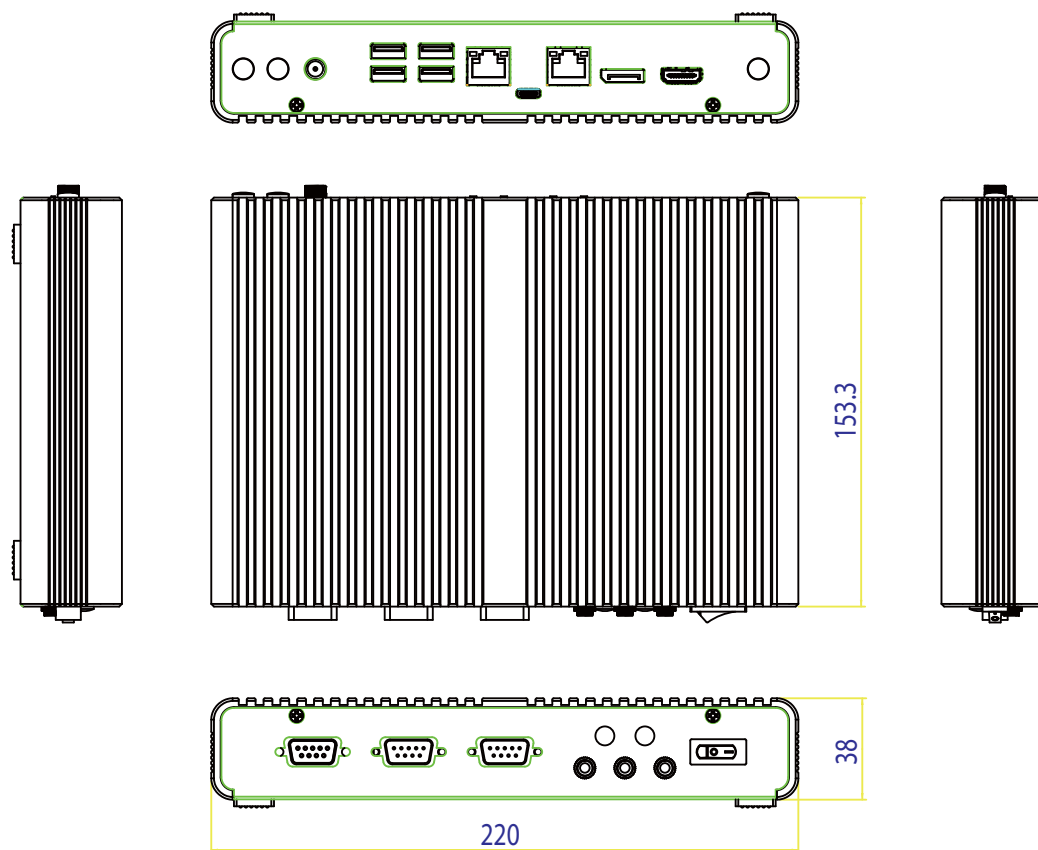
CPU Support
QDSP-7001: Intel® Skylake ULT Processor, Core™ i7-6600U (Dual Core, 4M Cache, up to 3.40 GHz, FCBGA1356, 15W TDP)
QDSP-7002: Intel® Skylake ULT Processor, Core™ i5-6300U (Dual Core, 3M Cache, up to 3.00 GHz, FCBGA1356, 15W TDP)
QDSP-7010: Intel® Kaby Lake ULT Processor, Core™ i3-7100U (Dual Core, 3M Cache, 2.40 GHz, FCBGA1356, 15W TDP)
Memory
2x DDR4 2133 1.2V SO-DIMM up to 32GB
Graphic Controller
Intel® HD Graphics 520 (QDSP-7001/7002)
Intel® HD Graphics 620 (QDSP-7010)
Display Interfaces
1x HDMI2.0 (on rear, 3840 x 2160 @ 60Hz)
1x DP (on rear, 4096 x 2304 @ 60Hz)
Multiple Display
Dual
Audio Chipset
Realtek ALC662
Audio Interfaces
1x Line-in (on front)
1x Line-out (on front)
1x Mic-in (on front)
Ethernet
2x LAN (RJ-45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
USB
1x USB3.1 (Type C on rear)
4x USB3.0 (Type A on rear)
Serial Ports
2x RS-232/422/485 (DB9 on front)
Other I/O Ports
1x DIO (DB9 Female on front)
Storage & Expansion
1x 2.5" SATA3.0 HDD / SSD
1x mPCIe Socket
1x M.2 Key B Socket

Power Supply
Connector: Pluggable DC Jack
Input Voltage: DC 12V (default), 24V or other options (by request)
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: Processor integrated RTC
TPM: optional (Infineon SLB 9635 TPM 1.2)
iAMT: only for QDSP-7001/7002
System Control & Monitoring
1x Power Switch (on front)
1x Power LED (on front)
1x Storage LED (on front)
Cooling
Fanless
OS Support
Windows, Linux
Construction
Aluminium Chassis
Dimensions (W x D x H)
220 x 153.3 x 38 mm / 8.66" x 6.04" x 1.50"
Weight
1600 g / 3.53 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
Certification
CE, FCC Class A

QDSP-7000 Series I/Os



Mechanical Dimensions



Ordering Information

Article	Part No.	Description
QDSP-7001	SDSP700100010T00	Intel® Core™ i7-6600U, 2x DDR4 SO-DIMM, Intel® HD Graphics 520, 1x HDMI2.0, 1x DP, 2x LAN, 1x USB3.1, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x mPCIe, 1x M.2
QDSP-7002	SDSP700200010T00	Intel® Core™ i5-6300U, 2x DDR4 SO-DIMM, Intel® HD Graphics 520, 1x HDMI2.0, 1x DP, 2x LAN, 1x USB3.1, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x mPCIe, 1x M.2
QDSP-7010	SDSP701000010T00	Intel® Core™ i3-7100U, 2x DDR4 SO-DIMM, Intel® HD Graphics 620, 1x HDMI2.0, 1x DP, 2x LAN, 1x USB3.1, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x mPCIe, 1x M.2