

# QDSP-7000 Series

Fanless Digital Signage Player  
with Intel® Skylake / Kaby Lake U-Series Processors



- Intel® Skylake / Kaby Lake U-Series Processors (15W TDP)
- 2x DDR4 SO-DIMM
- 1x HDMI2.0, 1x DP for video output
- 2x GbE LAN for Ethernet
- 4x USB3.0, 2x RS-232/422/485, 1x DIO for peripherals
- 1x 2.5" SATA3.0 HDD / SSD for storage
- 1x mPCIe, 1x M.2 for expansion
- Passive cooling design without fans nor vents



## Product Overview

Power by 6th / 7th Generation Intel® Skylake / Kaby Lake U-Series 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 supported, allowing double read / write 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.

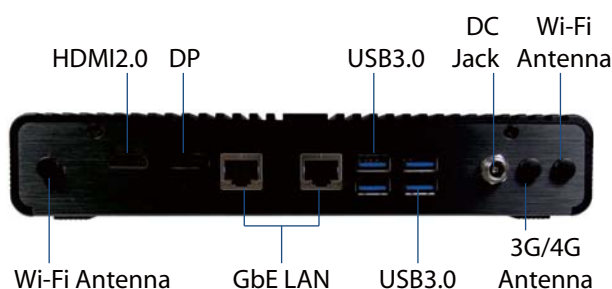
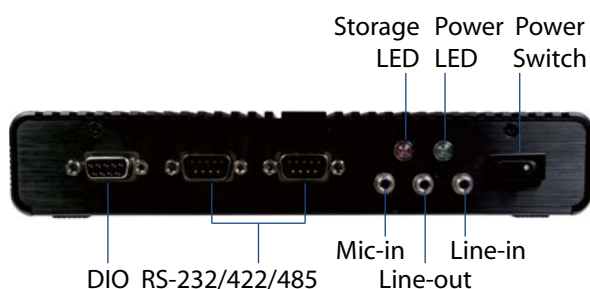
Finally, it is enclosed within a rugged ventless aluminium chassis, allowing it installed outside without fear of dust ingress.

## Technical Information

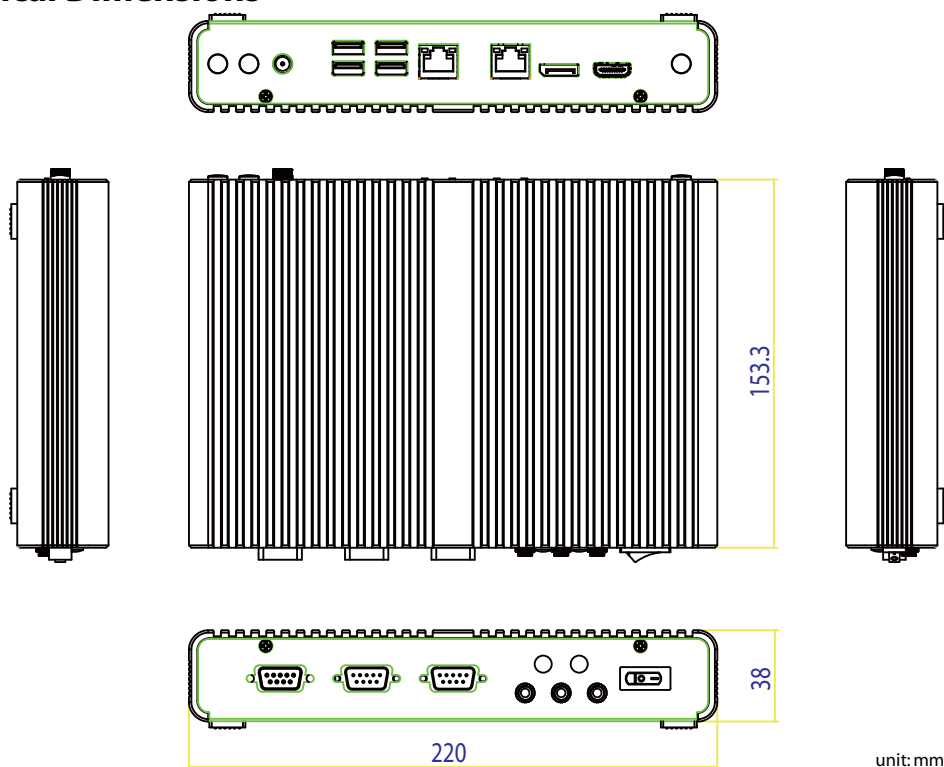
CPU Support
Intel® Skylake ULT Processor, Celeron® 3955U (Dual Core, 2M Cache, 2.00 GHz, FCBGA1356, 15W TDP)
Intel® Skylake ULT Processor, Core™ i7-6600U (Dual Core, 4M Cache, up to 3.40 GHz, FCBGA1356, 15W TDP)
Intel® Skylake ULT Processor, Core™ i5-6300U (Dual Core, 3M Cache, up to 3.00 GHz, FCBGA1356, 15W TDP)
Intel® Kaby Lake ULT Processor, Core™ i3-7100U (Dual Core, 3M Cache, 2.40 GHz, FCBGA1356, 15W TDP)
Intel® Kaby Lake ULT Processor, Core™ i7-7600U (Dual Core, 4M Cache, up to 3.90 GHz, FCBGA1356, 15W TDP)
Intel® Kaby Lake ULT Processor, Core™ i5-7300U (Dual Core, 3M Cache, up to 3.50 GHz, FCBGA1356, 15W TDP)
Intel® Kaby Lake ULT Processor, Celeron® 3965U (Dual Core, 2M Cache, 2.20 GHz, FCBGA1356, 15W TDP)
Memory
2x DDR4 1866/2133 SO-DIMM up to 32GB (Celeron® 3955U model only) 2x DDR4 2133 SO-DIMM up to 32GB (other models)
Graphic Controller
Intel® HD Graphics 510 (Skylake Celeron® model) Intel® HD Graphics 520 (Skylake Core™ i models) Intel® HD Graphics 610 (Kaby Lake Celeron® model) Intel® HD Graphics 620 (Kaby Lake Core™ i models)
Display Interfaces
1x HDMI2.0 (on rear, 4096 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 GbE LAN (RJ-45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
USB
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 (full size) 1x M.2 Key B Socket
Power Supply
Connector: Lockable DC Jack (on rear) 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 9665 TPM 2.0) iAMT: Supported only for Core™ i5 / i7 models
System Control & Monitoring
1x Power Switch (on front) 1x Power LED (on front) 1x Storage LED (on front)
Cooling
Passive
OS Support
Windows 10, Linux
Construction
Aluminum 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

## Front & Rear I/O Panels



## Mechanical Dimensions



## Ordering Information

Article	Description
QDSP-7000	Intel® Celeron® 3955U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x 2.5" SATA HDD / SSD, 1x mPCIe, 1x M.2 Key B, w/o iAMT
QDSP-7001	Intel® Core™ i7-6600U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x 2.5" SATA HDD / SSD, 1x mPCIe, 1x M.2 Key B, w/ iAMT
QDSP-7002	Intel® Core™ i5-6300U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x 2.5" SATA HDD / SSD, 1x mPCIe, 1x M.2 Key B, w/ iAMT
QDSP-7010	Intel® Core™ i3-7100U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x 2.5" SATA HDD / SSD, 1x mPCIe, 1x M.2 Key B, w/o iAMT
QDSP-7011	Intel® Core™ i7-7600U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x 2.5" SATA HDD / SSD, 1x mPCIe, 1x M.2 Key B, w/ iAMT
QDSP-7012	Intel® Core™ i5-7300U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x 2.5" SATA HDD / SSD, 1x mPCIe, 1x M.2 Key B, w/ iAMT
QDSP-7013	Intel® Celeron® 3965U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x DIO, 1x 2.5" SATA HDD / SSD, 1x mPCIe, 1x M.2 Key B, w/o iAMT

## Optional Accessories

Product Name	Description
VESA Mounting Kit	Hole pattern: 100 mm x 100 mm & 75 mm x 75 mm