

QDSP-200 Series

0.6-Liter Box PC with
Intel® Bay Trail Dual Core / Quad Core Processor



- Intel® Bay Trail Dual Core / Quad Core Processor
- 1x DDR3L SO-DIMM Socket or 4GB/2GB memory by default
- 1x VGA, 1x HDMI for video output
- 1x 2.5" SATA HDD / SSD support or 64GB/120GB SSD, 1x Micro SD (QDSP-200)
- 1x LAN, 1x mPCIe for network connection or expansion
- 1x USB3.0, 2x USB2.0, 1x RS-232/422/485 for peripheral connection



Product Overview

The QDSP-200 Series is a 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 Dual Core / Quad Core processor which provides excellent performance.

With 1x LAN, 1x USB3.0, 2x USB2.0, 1x VGA, 1x HDMI and 1x RS-232/422/485, it provides connection to possible peripheral applications.

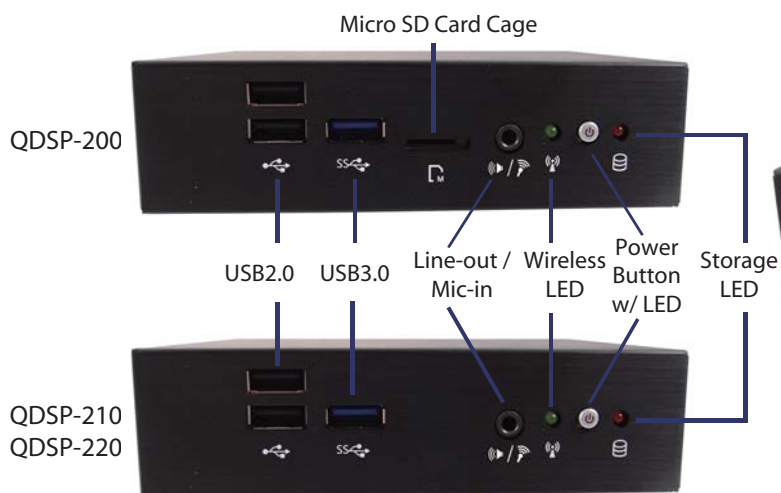
Technical Information

CPU Support
QDSP-200: Intel® Atom™ E3825 (Dual Core, 1M Cache, 1.33 GHz, FCBGA1170 socket, 6W TDP)
QDSP-210: Intel® Celeron® J1900 (Quad Core, 2M Cache, up to 2.42 GHz, FCBGA1170 socket, 10W TDP)
QDSP-220: Intel® Celeron® N2807 (Dual Core, 1M Cache, up to 2.16 GHz, FCBGA1170 socket, 4.3W TDP)
Memory
1x DDR3L 1067 SO-DIMM up to 8GB (QDSP-200)
4GB DDR3L 1333 memory (QDSP-210)
2GB DDR3L 1333 memory (QDSP-220)
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 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 (QDSP-200)
120GB 2.5" SATA SSD (QDSP-210)
64GB 2.5" SATA SSD (QDSP-220)
1x Micro SD Card Cage (on front, QDSP-200)
1x mPCIe (full size)
1x SIM Card Cage (by wafer)

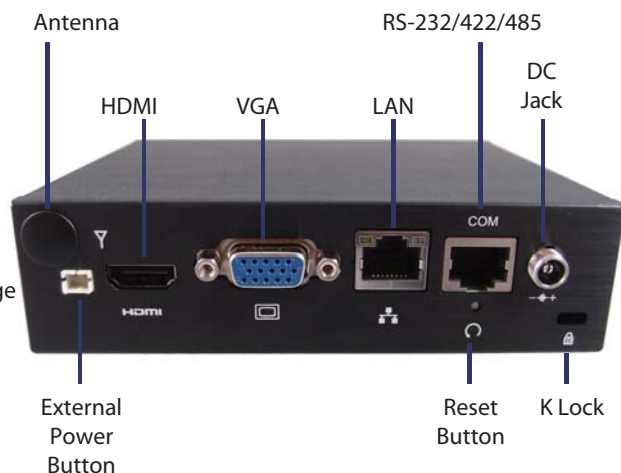
Power Supply
Connector: Lockable DC Jack (on rear)
Input Voltage: DC 19V
Power Adapter: AC to DC, 100V ~ 240V
Firmware
BIOS: AMI uEFI BIOS w/ 64Mb SPI Flash
Watchdog: Programmable WDT to generate system reset event
H/W Monitor: Voltages, Temperatures
Real Time Clock: SoC integrated RTC
TPM: optional (Infineon SLB9635 TPM 1.2)
System Control & Monitoring
1x Power Button w/ LED (on front)
1x Reset Button (on rear)
1x Storage LED (on front)
1x Wireless LED (on front)
1x External Power Button (on rear)
Cooling
1x System Smart Fan
OS Support
Windows 7, Windows 8, Windows 10, Linux
Construction
Aluminum Chassis
Dimensions (W x D x H)
130 x 111 x 35 mm / 5.12" x 4.37" x 1.38"
Weight
400 g / 0.97 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-200 Series I/Os

Front I/O Panel



Rear I/O Panel



Technical Information

Article	Part No.	Description
QDSP-200	SDSP020000010T00	Intel® Atom™ E3825, 1x DDR3L SO-DIMM, 1x 2.5" SATA HDD/SSD, 1x HDMI, 1x VGA, 1x USB3.0, 2x USB2.0, 1x RS-232/422/485, 1x GbE, 1x Micro SD card cage, 1x mPCIe
QDSP-210		Intel® Celeron® J1900, 4GB DDR3L memory, 120GB 2.5" SATA SSD, 1x HDMI, 1x VGA, 1x USB3.0, 2x USB2.0, 1x RS-232/422/485, 1x GbE, 1x mPCIe
QDSP-220		Intel® Celeron® N2807, 2GB DDR3L memory, 64GB 2.5" SATA SSD, 1x HDMI, 1x VGA, 1x USB3.0, 2x USB2.0, 1x RS-232/422/485, 1x GbE, 1x mPCIe