

QDSP-2090 Series

Digital Signage Player with Intel® Haswell Processor



- Intel® Haswell Processor with H81 / Q87 Express chipset
- 2 x DDR3 SO-DIMM up to 16GB
- 1x DVI-I, 2x DP, 2x GbE and 5.1 channel audio output
- SATA HDD or SSD, 6x USB3.0 or 2x USB3.0 + 4x USB2.0, 1x COM
- 2x mPCIe slot or 2x mPCIe/mSATA slot, 1x SIM card slot
- Optional Wireless Ethernet or 3G Module



Product Overview

The QDSP-2090 Series is an embedded box PC featuring its excellent performance for 4th Generation Intel® Core™ Processors on Intel® H81 / Q87 chipset as well as 2x DDR3 SO-DIMM. Moreover, it comes with a variety of I/O ports and expansion slots for peripheral functions or possible future upgrades, including 1x DVI-I, 2x DP, 2x RJ-45, 6x USB3.0 / 2x USB3.0 + 4x USB2.0, 1x COM, HD Audio, 2x mPCIe slot and 1x SIM card slot.

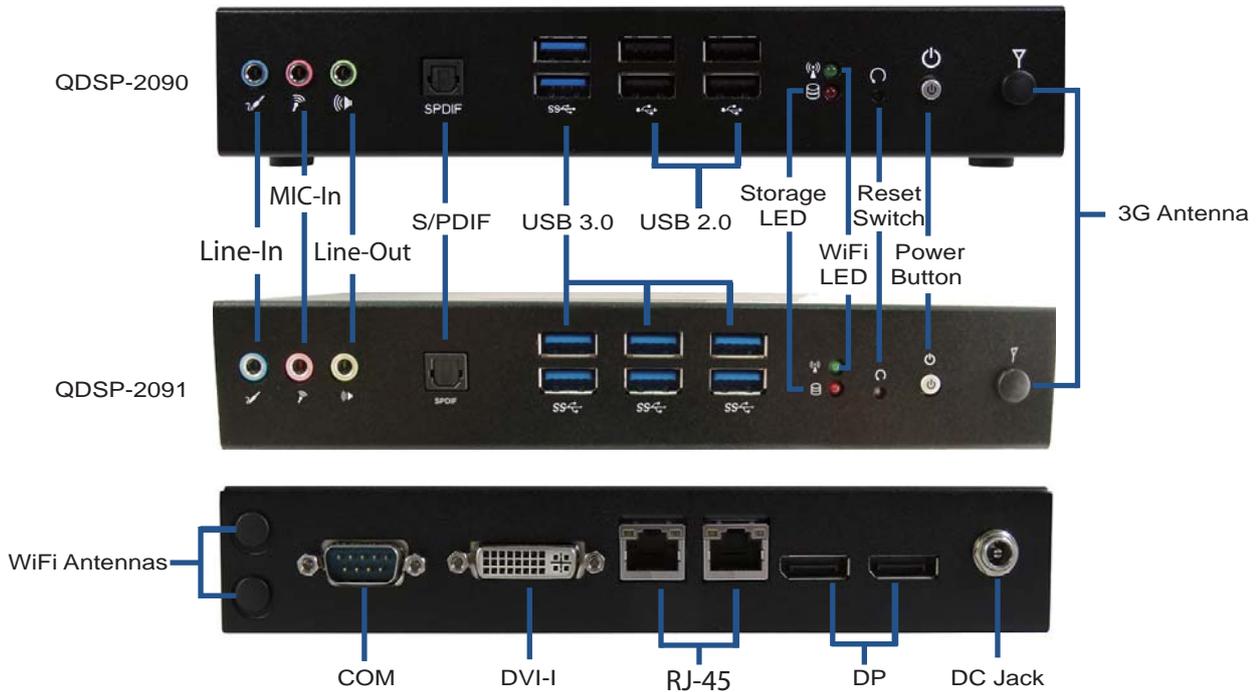
Enclosed in a rugged compact metal housing, the QDSP-2090 Series provides high reliability for harsh environments and space critical applications. It is therefore highly suited to a wide range of industrial applications such as Digital Signage, Gaming, Transportation, Surveillance, and Thin Servers.

Technical Information

CPU Support	4th Generation Intel® Haswell Core™ i Processor (Dual / Quad Core, 2M / 3M / 4M / 6M / 8M Cache, 1.90 ~ 4.00 GHz, FCLGA1150 socket, 35W ~ 84W TDP)
Chipset	QDSP-2090: Intel® H81 QDSP-2091: Intel® Q87
Memory	2x DDR3 1333/1600 SO-DIMM up to 16GB
Graphic Controller	Intel® HD Graphics / 4600 / 4400
Display Interfaces	2x DP (on rear, 2560 x 1600 @ 60Hz) 1x DVI-I (on rear, 1920 x 1200 @ 60Hz)
Multiple Display	Triple
Audio Chipset	Realtek ALC662
Audio Interfaces	1x Line-in (on front) 1x Line-out (on front) 1x Mic-in (on front) 1x S/PDIF (on front)
Ethernet	2x LAN (RJ-45 on rear, Intel® I217-LM, Intel® I210-AT)
USB	2x USB3.0 (Type A on front, QDSP-2090) 6x USB3.0 (Type A on front, QDSP-2091) 4x USB2.0 (Type A on front, QDSP-2090)
Serial Ports	1x RS-232/422/485 (DB9 on rear)
Storage & Expansion	1x 2.5" SATA HDD / SSD 2x mSATA / mPCIe (1x full size, 1x half size, QDSP-2091) 2x mPCIe (1x full size, 1x half size, QDSP-2090) 1x SIM Card Cage

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/ 128Mb SPI Flash Watchdog: Programmable WDT to generate system reset event H/W Monitor: Input & Core Voltages, CPU & System Temperatures Real Time Clock: Chipset integrated RTC TPM: TPM support for QDSP-2091 (Infineon SLB9635) iAMT: depending on processor
System Control & Monitoring	1x Power Button w/ LED (on front) 1x Reset Button (on front) 1x HDD LED (on front) 1x Wireless LED (on front)
Cooling	1x CPU Smart Fan
OS Support	Windows 7, Windows 8, Linux
Construction	Metal Chassis
Dimensions (W x D x H)	200 x 153.1 x 35 mm / 7.87" x 6.03" x 1.38"
Weight	1000 g / 2.20 lb
Environmental Characteristics	Operation Temp.: 0°C ~ 40°C / 32°F ~ 104°F Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F Humidity: 0% ~ 90%
Mounting	VESA Mount
Certification	CE, FCC Class A

QDSP-2090 Series I/Os



Ordering Information

Article	Part No.	Description
QDSP-2090	SDSP209000010T00	4th Generation Intel® Core™ i3/i5/i7 Processor with Intel® H81 Express Chipset, 2x GbE, 1x DVI-I, 2x DP, 2x USB 3.0, 4x USB2.0, 2x mPCIe and Line-in/Line-out/MIC-in
QDSP-2091	SDSP209100010T00	4th Generation Intel® Core™ i3/i5/i7 Processor with Intel® Q87 Express Chipset, 2x GbE, 1x DVI-I, 2x DP, 6x USB 3.0, 2x mPCIe and Line-in/Line-out/MIC-in