

OPS-2050 Series

Open Pluggable Specification (OPS) Compliant
Digital Signage Player
with 6th Generation Intel® Skylake-H Processor



- 6th Generation Intel® Skylake-H Processor
- Intel® QM170 / HM170 Express Chipset
- 2 x DDR4 SO-DIMM
- 2x HDMI2.0 (1x on front), 2 x DP (1x on front) for video output
- 6x USB3.0 (4x on front), 2x USB2.0 for peripheral connection
- 2x LAN on front for wired network connection
- 1x M.2 Key A, 1x M.2 Key B for storage & wireless expansion
- 1x slim type 2.5" SATA HDD / SSD slot on front for storage
- Wide voltage range power input: 12V ~ 19V



Product Overview

OPS-2050 Series is an OPS-Compliant media player for digital signage application. This embedded hardware platform boasts the 6th Generation Intel® Skylake-H processor, integrated with Intel® HD Graphics 530 GPU and therefore it is stunning by greatly enhanced graphics performance and energy efficiency to respond to the requirements for the state-of-the-art applications.

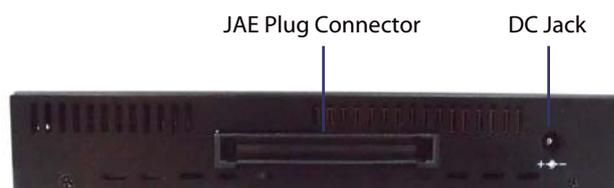
Another distinguishing feature is that OPS-2050 Series is equipped with the latest-version HDMI 2.0 port with 4K resolution, higher data rate, wider bandwidth, ultra-wide display support and can satisfy increasing requirements for high definition and large screen size.

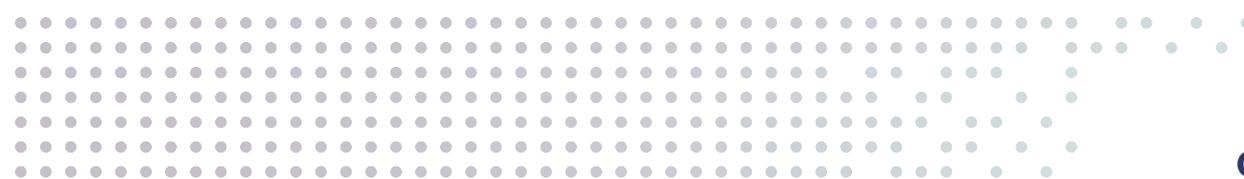
Technical Information

CPU Support	<p>OPS-2051: Intel® Core™ i7-6820HQ (Quad Core, 8M Cache, up to 3.60 GHz, FCBGA1440, 45W TDP)</p> <p>OPS-2052: Intel® Core™ i7-6700HQ (Quad Core, 6M Cache, up to 3.50 GHz, FCBGA1440, 45W TDP)</p> <p>OPS-2053: Intel® Core™ i5-6440HQ (Quad Core, 6M Cache, up to 3.50 GHz, FCBGA1440, 45W TDP)</p>
Chipset	<p>Intel® QM170 (OPS-2051/2053)</p> <p>Intel® HM170 (OPS-2052)</p>
Memory	2x DDR4 2133 SO-DIMM up to 32GB
Graphic Controller	Intel® HD Graphics 530
Display Interfaces	<p>2x HDMI2.0 (1x on front, 1x by JAE, 3840 x 2160 @ 60Hz)</p> <p>2x DP (1x on front, 1x by JAE, 4096 x 2304 @ 60Hz)</p>
Multiple Display	Triple (only one output supported between 2 on-front ports)
Audio Chipset	Realtek ALC662
Audio Interfaces	<p>1x Line-in/Line-out/Mic-in (on front)</p> <p>1x Line-out (by JAE)</p>
Ethernet	2x LAN (RJ-45 on front, 1x Intel® I219, 1x Intel® I210)
USB	<p>6x USB3.0 (4x Type A on front, 2x by JAE)</p> <p>2x USB2.0 (by JAE)</p>
Other I/Os	1x UART (by JAE)
Storage & Expansion	<p>1x 2.5" SATA HDD / SSD (Slim type slot on front)</p> <p>1x M.2 Key A slot (default Wi-Fi module)</p> <p>1x M.2 Key B slot (default for Storage / 3G / 4G module)</p> <p>1x microSIM card holder</p>

Power Supply	<p>Connector: JAE Plug Connector (on rear)</p> <p>DC Jack (on rear, optional adapter required)</p> <p>Input Voltage: DC 12V ~ 19V</p>
Firmware	<p>BIOS: AMI uEFI BIOS w/ 128Mb SPI Flash</p> <p>Watchdog: Programmable WDT to generate system reset event</p> <p>H/W Monitor: Voltages, Temperatures</p> <p>Real Time Clock: Chipset integrated RTC</p> <p>TPM: Only for OPS-2051/2053 (Infineon SLB 9660 TT1.2)</p> <p>iAMT: Only for OPS-2051/2053</p>
System Control & Monitoring	<p>1x Power Button w/ LED (on front)</p> <p>1x Reset Button (on front)</p> <p>1x Storage LED (on front)</p> <p>1x Wireless LED (on front)</p>
Cooling	<p>1x CPU Smart Fan</p> <p>1x System Smart Fan (by JAE)</p>
OS Support	Windows 7, Windows 8, Windows 10, Linux
Construction	Metal Chassis
Dimensions (W x D x H)	200 x 119 x 30 mm / 7.87" x 4.69" x 1.18"
Weight	1000 g / 2.20 lb
Environmental Characteristics	<p>Operation Temp.: 0°C ~ 45°C / 32°F ~ 113°F</p> <p>Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F</p> <p>Humidity: 0% ~ 90%</p>
Mounting	OPS-slot Mount
Certification	CE, FCC Class A

OPS-2050 Series I/Os




 **Ordering Information**

Article	Part No.	Description
OPS-2051	SOPS205100010T00	Intel® Core™ i7-6820HQ, Intel® QM170, 2x DDR4 SO-DIMM, 2x HDMI2.0, 2x DP, 2x LAN, 6x USB3.0, 2x USB2.0, 1x M.2 Key A, 1x M.2 Key B, w/ TPM & iAMT
OPS-2052	SOPS205200010T00	Intel® Core™ i7-6700HQ, Intel® HM170, 2x DDR4 SO-DIMM, 2x HDMI2.0, 2x DP, 2x LAN, 6x USB3.0, 2x USB2.0, 1x M.2 Key A, 1x M.2 Key B, w/o TPM & iAMT
OPS-2053	SOPS205300010T00	Intel® Core™ i5-6440HQ, Intel® QM170, 2x DDR4 SO-DIMM, 2x HDMI2.0, 2x DP, 2x LAN, 6x USB3.0, 2x USB2.0, 1x M.2 Key A, 1x M.2 Key B, w/ TPM & iAMT