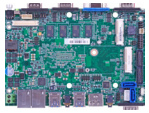
6th Gen Intel® Core™ Processor-based Products

SBC, Mini-ITX

Form Factor	3.5" SBC	4" SBC		Mini-ITX		Mini-ITX		Mini-ITX			
											
Chipset	**N/A**	**N/A**		**N/A**		**Q170**	**H110**	**Q170**		**H110**	
Platform	ULT	ULT		ULT		Desktop		Desktop			
Model	**SU551**	**SU251**	**SU253**	**SU171**	**SU173**	**SD100-Q170**	**SD100-H110**	**SD101-Q170**	**SD103-Q170**	**SD101-H110**	**SD103-H110**
		same PCB		same PCB		same PCB		same PCB			
Processor	6th Gen Intel® Core™ U					6th Gen Intel® Core™		6th Gen Intel® Core™			
Memory	1 DDR3L SODIMM up to 8GB	DDR4 memory down up to 8GB		2 DDR3L SODIMM up to 16GB		2 DDR4 SODIMM up to 32GB		2 DDR4 SODIMM up to 32GB			
Display	1 VGA, 1 LVDS, 1 DP++	1 VGA, 1 LVDS*/eDP, 1 DP++*/HDMI		1 LVDS*/eDP , 1 HDMI*/DP, 1 DP++		1 VGA, 1 LVDS, 1 DVI-D, 1 DP++		1 LVDS, 1 DVI-D, 1 HDMI*/DP++			
GbE	2	2		2		2		2			
Expansion	1 full-size Mini PCIe (USB, PCIe, mSATA) 1 half-size Mini PCIe (USB, PCIe) 1 SIM 1 SMBus 1 DFI Extension I/O	1 full-size Mini PCIe (PCIe, USB) 1 half-size Mini PCIe (SATA, PCIe, USB) 1 SMBus 1 DFI Extension I/O		1 PCIe x4 (Gen 3) 1 full-size Mini PCIe (USB, SATA, PCIe(i5, i7)) 1 full-size Mini PCIe (USB, PCIe) 1 SIM 1 SMBus 1 LPC		1 PCIe x16 1 full-size Mini PCIe (USB, PCIe, SATA) 1 SMBus 1 LPC	1 PCIe x16 1 full-size Mini PCIe (USB, PCIe) 1 SMBus 1 LPC	1 PCIe x4 (Gen 3) 1 full-size Mini PCIe (USB, PCIe, SATA*) 1 half-size Mini PCIe (USB, PCIe*, SATA) 1 SMBus 1 LPC		1 PCIe x4 (Gen 2) 1 full-size mSATA (USB, SATA) 1 half-size Mini PCIe (USB, PCIe) 1 SMBus 1 LPC	
SATA	2 SATA 3.0	2 SATA 3.0		2 SATA 3.0		3 SATA 3.0 (RAID)	3 SATA 3.0	2 SATA 3.0 (RAID)		2 SATA 3.0	
USB	4 USB 3.0 2 USB 2.0	4 USB 3.0 2 USB 2.0 (1 shared with USB 2.0 OTG)		4 USB 3.0 4 USB 2.0 1 vertical USB 2.0 (opt.)		4 USB 3.0 6 USB 2.0	4 USB 3.0 4 USB 2.0	4 USB 3.0 4 USB 2.0			
COM	2 RS-232/422/485 2 RS-232	6 RS-232/422/485		2 RS-232/422/485 2 RS-232		1 RS-232/422/485 3 RS-232		1 RS-232/422/485 3 RS-232			
Parallel	N/A	N/A		N/A		N/A		N/A			
DIO	8-bit	8-bit (shared with COM 4)		8-bit		8-bit		8-bit			
SSD	N/A	N/A		N/A		N/A		N/A			
IDE	N/A	N/A		N/A		N/A		N/A			
Audio	Line-out, Mic-in	Mic-in, Line-out		Mic-in, Line-out, S/PDIF		Mic-in, Line-out, S/PDIF		Mic-in, Line-out, S/PDIF			
AMT	AMT 11.0 (i5, i7)	AMT 11.0 (i5, i7)		AMT 11.0 (i5, i7)		AMT 11.0 (i5, i7)	N/A	AMT 11.0 (i5, i7)		N/A	
TPM	N/A	optional		optional		N/A		N/A			
Power	12V DC-in	12V DC-in	15~36V DC-in	12V DC-in	15~36V DC-in	ATX		12V DC-in	15~36V DC-in	12V DC-in	15~36V DC-in
Compliance	N/A	N/A		N/A		N/A		N/A			
Carrier Board	N/A	N/A		N/A		N/A		N/A			
Operating Temp.	0 to 60°C	0 to 60°C		0 to 60°C		0 to 60°C		0 to 60°C			

*Populated by Default

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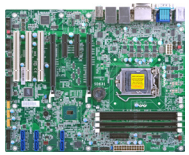
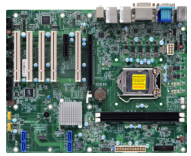
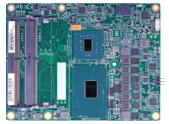
All product specifications are subject to change without notice.

6th Gen Intel® Core™ Processor-based Products

microATX, ATX, COM Express

Form Factor	microATX		microATX		ATX		ATX	COM Express Compact	COM Express Basic	
										
Chipset	**C236**	**Q170**	**Q170**	**H110**	**C236**	**Q170**	**H110**	**N/A**	**QM170**	**HM170**
Platform	Workstation	Desktop	Desktop		Workstation	Desktop	Desktop	ULT	Mobile	
Model	**SD331-C236**	**SD331-Q170**	**SD330-Q170**	**SD330-H110**	**SD631-C236**	**SD631-Q170**	**SD630-H110**	**SU968**	**SH960-QM170**	**SH960-HM170**
	same PCB		same PCB		same PCB				same PCB	
Processor	Intel® Xeon®/6th Gen Intel® Core™		6th Gen Intel® Core™		Intel® Xeon®/6th Gen Intel® Core™		6th Gen Intel® Core™	6th Gen Intel® Core™ U	6th Gen Intel® Core™	
Memory	4 DDR4 ECC DIMM up to 64GB	4 DDR4 DIMM up to 64GB	4 DDR4 DIMM up to 64GB	2 DDR4 DIMM up to 32GB	4 DDR4 ECC DIMM up to 64GB	4 DDR4 DIMM up to 64GB	2 DDR3L DIMM up to 16GB	2 DDR3L SODIMM up to 16GB	2 DDR4 SODIMM up to 32GB	
Display	1 VGA, 1 DVI-D, 1 DP++		1 VGA, 1 LVDS, 1 DVI-D, 1 DP++		1 VGA, 1 DVI-D, 1 HDMI		1 VGA, 1 DVI-D, 1 HDMI	1 VGA*/DDI, 1 LVDS*/eDP, 1 DDI	1 VGA*/DDI, 1 LVDS*/eDP, 2 DDI	
GbE	2		2		2		2	1	1	
Expansion	2 PCIe x16 (Gen 3) (1 x16 or 2 x8 signal) 2 PCIe x4 (Gen 3) 1 SMBus 1 LPC	2 PCIe x16 (Gen 3) (1 x16 or 2 x8 signal) 2 PCIe x4 (Gen 3) 1 SMBus 1 LPC	1 PCIe x16 1 PCIe x4 2 PCI 1 full-size Mini PCIe (USB, PCIe*, SATA) 1 SIM 1 SMBus 1 LPC	1 PCIe x16 (Gen 3) 1 PCIe x4 (Gen 2) 2 PCI 1 SMBus 1 LPC	2 PCIe x16 (1 x16 or 2 x8 signal) (Gen 3) 2 PCIe x4 (Gen 3) 3 PCI 1 SMBus 1 LPC		1 PCIe x16 1 PCIe x4 5 PCI 1 SMBus 1 LPC	5 x PCIe x1 or 4 PCIe x1 + 1 PCIe x4 1 LPC, 1 SMBus, 1 I^2C 2 UART, 1 SPI	1 PCIe x16 8 PCIe x1 1 LPC, 1 SMBus, 1 I^2C, 2 UART, 1 SPI	
SATA	6 SATA 3.0 (RAID)		4 SATA 3.0 (RAID)	4 SATA 3.0	6 SATA 3.0 (RAID)		4 SATA 3.0	3 SATA 3.0 (RAID) (Core i7/i5) 2 SATA 3.0 (Celeron)	4 SATA 3.0 (RAID)	
USB	8 USB 3.0 6 USB 2.0 1 vertical USB 2.0 (opt.)	8 USB 3.0 6 USB 2.0 1 vertical USB 2.0 (opt.)	6 USB 3.0 6 USB 2.0 1 vertical USB 2.0 (opt.)	4 USB 3.0 6 USB 2.0 1 vertical USB 2.0 (opt.)	6 USB 3.0 8 USB 2.0 1 vertical USB 2.0 (opt.)		4 USB 3.0 6 USB 2.0 1 vertical USB 2.0 (opt.)	4 USB 3.0 8 USB 2.0	4 USB 3.0 8 USB 2.0	
COM	2 RS-232/422/485 4 RS-232		2 RS-232/422/485 4 RS-232		2 RS-232/422/485 4 RS-232		2 RS-232/422/485 4 RS-232	N/A	N/A	
Parallel	N/A		N/A		N/A		N/A	N/A	N/A	
DIO	8-bit		8-bit		8-bit		8-bit	8-bit	8-bit	
SSD	N/A		N/A		N/A		N/A	N/A	N/A	
IDE	N/A		N/A		N/A		N/A	N/A	N/A	
Audio	Mic-in, Line-out, S/PDIF		Mic-in, Line-out, S/PDIF		Mic-in, Line-out, S/PDIF		Mic-in, Line-out, S/PDIF	HD Audio	HD Audio	
AMT	AMT 11.0 (i5, i7)		AMT 11.0 (i5, i7)	N/A	AMT 11.0 (i5, i7)		N/A	AMT 11.0 (i5, i7)	AMT 11.0	N/A
TPM	optional		optional		optional		optional	optional	optional	
Power	ATX		ATX		ATX		ATX	12V/5VSB (ATX) 12V (AT)	12V/5VSB (ATX) 12V (AT)	
Compliance	N/A		N/A		N/A		N/A	Compact R2.1 Type 6	Basic R2.1 Type 6	
Carrier Board	N/A		N/A		N/A		N/A	COM332-B	COM332-B	
Operating Temp.	0 to 60°C		0 to 60°C		0 to 60°C		0 to 60°C	0 to 60°C	0 to 60°C	

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