

3.5" SBC, Mini-ITX, microATX, COM Express Compact, COM Express Basic

Form Factor	3.5" SBC	Mini-ITX		microATX		COM Express Compact	COM Express Basic
Chipset	N/A	N/A		Q170	H110	N/A	CM238/QM175/HM175
Platform	ULT	ULT		Desktop		ULT	Mobile
Model	KU551	KU171	KU173	KD330-Q170	KD330-H110	KU968	KH960-CM238/QM175/HM175
		same PCB		same PCB			
Processor	7th Gen Intel® Core™ Processor						
Memory	1 DDR4 SODIMM up to 16GB	2 DDR4 SODIMM up to 32GB		2 DDR4 SODIMM up to 64GB	2 DDR4 SODIMM up to 32GB	Dual channel DDR4 memory down up to 8GB	2 DDR4 SODIMM up to 32GB
Display	1 VGA/DDI, 1 LVDS/eDP, 1 DP++/DDI	1 LVDS (Opt. eDP), 2 DP++		1 VGA, 1 DVI-I (DVI-D signal), 1 DP++		1 VGA (Opt. DDI), 1 LVDS (Opt. eDP), 1 DDI	1 VGA (Opt. DDI), 1 LVDS (Opt. eDP), 2 DDI (HDMI/DVI/DP++)
GbE	2	2		2		1	1
Expansion	1 Full-size Mini PCIe (PCIe, USB) 1 M.2 1 Extension I/O connector (Opt.)	1 PCIe x4 (Gen 3) 1 SIM (Opt.) 1 Full-size Mini PCIe (PCIe, USB) 1 M.2 (PCIe/SATA)		1 PCIe x16 (Gen 3) 1 PCIe x4 (Gen 3) 1 Full-size Mini PCIe (USB/PCIe/mSATA) 1 Half-size Mini PCIe (Opt.)		1 PCIe x16 (Gen 3) 1 PCIe x4 (Gen 3) 1 PCI	1 PCIe x16 or 2 PCIe x8 (Gen 3) 8 PCIe x1 (Gen 3) 1 LPC 1 I ² C 1 SMBus 2 UART (TX/RX)
SATA	1 SATA 3.0, 1 SATA Power	2 SATA 3.0 (RAID), 2 SATA Power		2 SATA 3.0		3 SATA 3.0 (RAID)	4 SATA 3.0 (only CM238/QM175 support RAID)
USB	4 x USB 3.0 2 x USB 2.0	4 USB 3.0 4 USB 2.0		6 USB 3.0 6 USB 2.0		4 USB 3.0 8 USB 2.0	4 USB 3.0 8 USB 2.0
COM	2 RS-232/422/485	1 RS-232/422/485 1 RS-232		N/A		N/A	N/A
Parallel	N/A	N/A		N/A		N/A	N/A
DIO	8-bit DIO	8-bit DIO		8-bit DIO		8-bit DIO	8-bit DIO
SSD/eMMC	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	Line-out, Mic-in, S/PDIF		Line-out, Mic-in, S/PDIF		HD Audio	HD Audio
AMT	AMT 9.5	AMT 9.5 (i5, i7)		AMT11.0 (i5, i7)	N/A	AMT11.0	AMT11.0 (CM238/QM175 only)
TPM	N/A	Opt.		Opt.		Opt.	Opt.
Power	Single 12V +/-10% DC	Single 12V +/-10% DC	Wide Range 9~36V	ATX		112V, 5VSB, VCC_RTC (ATX mode) 12V, VCC_RTC (AT mode)	112V, 5VSB, VCC_RTC (ATX mode) 12V, VCC_RTC (AT mode)
Compliance	N/A	N/A		N/A		PICMG COM Express® R2.1, Type 6	PICMG COM Express® R2.1, Type 6
Carrier Board	N/A	N/A		N/A		COM332-B	COM332-B
Operating Temp.	0 to 60°C (Opt. -20 to 70°C)	0 to 60°C (Opt. -20 to 70°C)		0 to 60°C		0 to 60°C (Opt. -40 to 85°C)	0 to 60°C (Opt. -40 to 85°C)

*Populated by Default