



## Specifications

<b>SYSTEM</b>	<b>Processor</b>	6th/7th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Socket Processors with TDP up to 95W	
	<b>Chipset</b>	Intel® H110 Chipset	
	<b>Memory</b>	2 288-pin DIMM up to 32GB	Dual Channel DDR4 2133/2400MHz
	<b>BIOS</b>	Insyde SPI 128Mbit	
<b>GRAPHICS</b>	<b>Controller</b>	Intel® HD Gen 9 Graphics	
	<b>Feature</b>	OpenGL 5.0, DirectX 12, OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9	
	<b>Display</b>	1 x VGA 1 x LVDS 1 x DVI-I (DVI-D signal) 1 x DP++	VGA: resolution up to 1920x1200 @ 60Hz LVDS: dual channel, resolution up to 1920x1200 @60Hz DVI-D: resolution up to 1920x1200 @ 60Hz DP++: resolution up to 4096x2304 @ 60Hz
	<b>Dual Displays</b>	VGA + LVDS VGA + DVI-I (DVI-D signal) VGA + DP++	LVDS + DVI-I (DVI-D signal) LVDS + DP++ DVI-I (DVI-D signal) + DP++
<b>EXPANSION</b>	<b>Interface</b>	4 x PCI	
<b>AUDIO</b>	<b>Audio Codec</b>	Realtek ALC888S-VD2-GR	
<b>ETHERNET</b>	<b>Controller</b>	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219V PCIe (10/100/1000Mbps)	
<b>REAR I/O</b>	<b>Ethernet</b>	2 x GbE (RJ-45)	
	<b>USB</b>	4 x USB 3.0	2 x USB 2.0
	<b>Serial</b>	1 x RS-232/422/485 (RS-232 w/ power) (DB-9)	
	<b>PS/2</b>	1 x PS/2 (mini-DIN-6)	
	<b>Display</b>	1 x VGA 1 x DVI-I (DVI-D signal) 1 x DP++	
	<b>Audio</b>	1 x Line-out 1 x Mic-in 1 x Line-in (opt., MOQ required)	
<b>INTERNAL I/O</b>	<b>Serial</b>	1 x RS-232/422/485 (RS-232 w/ power) (2.54mm pitch) 4 x RS-232 (default)	
	<b>USB</b>	4 x USB 2.0 (2.54mm pitch)	1 x vertical USB 2.0 (opt.)
	<b>Display</b>	1 x LVDS	
	<b>Audio</b>	1 x S/PDIF	1 x Front Audio
	<b>SATA</b>	4 x SATA 3.0 (up to 6Gb/s)	
	<b>DIO</b>	1 x 8-bit DIO	
	<b>LPC</b>	1 x LPC	
	<b>SMBus</b>	1 x SMBus	
<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds	
<b>SECURITY</b>	<b>TPM</b>	Infineon TPM2.0/1.2 (optional)	
<b>POWER</b>	<b>Type</b>	ATX	
	<b>Connector</b>	8-pin ATX 12V power	24-pin ATX power
	<b>Consumption</b>	Typical: i7-7700: 3.3V @ 0.35A (1.155Watt); 5V @ 0.71A (3.55Watt); 12V @ 0.6A (7.2Watt) Max.: i7-7700:3.3V @ 0.36A (1.188Watt); 5V @ 1.07A (5.35Watt); 12V @ 7.06A (84.72Watt)	
	<b>RTC Battery</b>	CR2032 Coin Cell	
<b>OS SUPPORT</b>		Windows 7 32/64-bit Window 8.1 64-bit Windows 10 64-bit Linux Note: 7th Gen CPU SKU ONLY support Windows 10 64-bit & Linux.	
<b>ENVIRONMENT</b>	<b>Temperature</b>	Operating: 0 to 60°C Storage: -30 to 60°C with RTC Battery; -40 to 85°C without RTC Battery	
	<b>Humidity</b>	Operating: 5 to 90% RH	Storage: 5 to 90% RH
	<b>MTBF</b>	527,696 hrs @ 25°C; 296,924 hrs @ 45°C ; 184,794 hrs @ 60°C Calculation Model: Telcordia Issue 4 Environment: GB, GC - Ground Benign, Controlled	
<b>MECHANICAL</b>	<b>Dimensions</b>	microATX form factor	244mm (9.6") x 244mm (9.6")
	<b>Height</b>	PCB: 1.6mm	Top Side: 38.5mm, Bottom Side: 4.4mm
<b>CERTIFICATIONS</b>		CE, FCC, RoHS	

## Packing List

• 1 KD300-H110 motherboard	
• 1 COM port cable (Length: 300mm, 2 x COM ports)	A81-015026-023G
• 1 Serial ATA data cable (Length: 500mm)	332-553001-005G
• 1 I/O shield	A49-KD6000-000G

## Optional Items

• USB 2.0 port cable (Length: 350mm)	A81-001066-016G
• COM port cable (Length: 300mm, 2 x COM ports)	A81-015026-023G
• Serial ATA data cable (Length: 500mm)	332-553001-005G
• Thermal solution (For 35W, Height: 37.3mm)	A71-103004-000G
• Thermal solution (For 65W, Height: 74.47mm)	A71-101158-000G
• Thermal solution (For 95W, Height: 77.2mm)	761-103001-000G
• USB 3.0 port cable (Length: 320mm)	A81-001052-023G
• DP to HDMI Dongle	612-D2H13M-000G