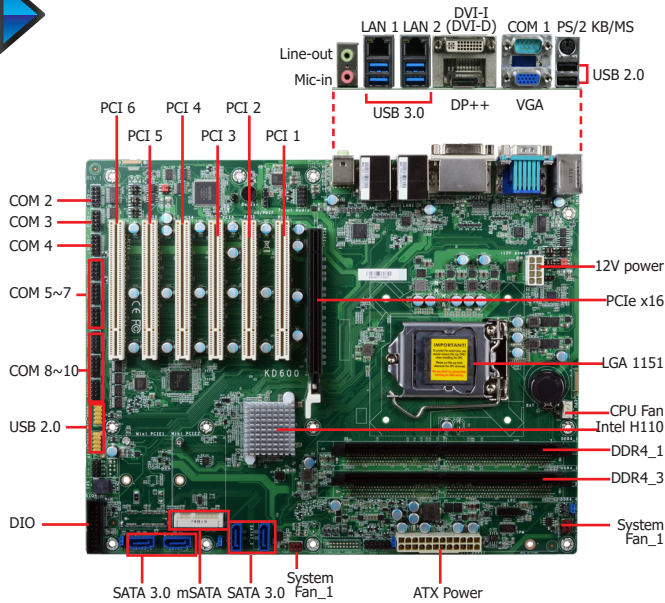




KD600-H110

Desktop

H110



Features

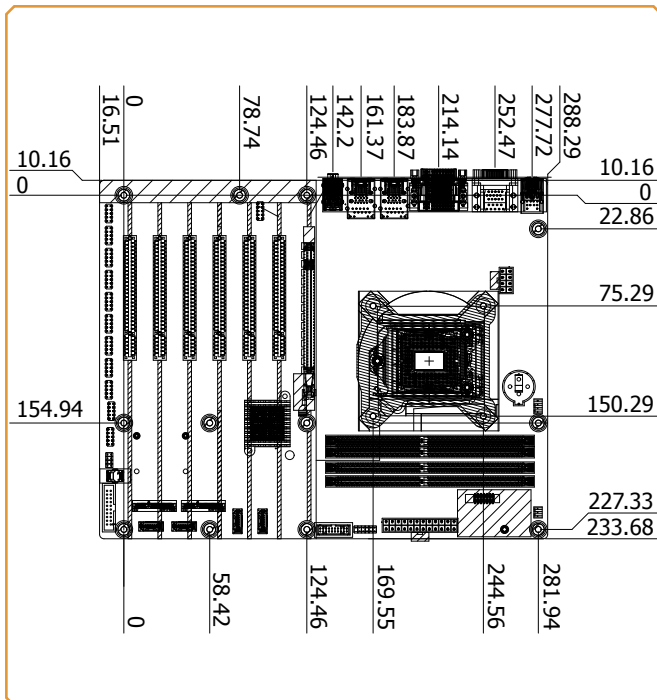
- 2 DDR4 DIMM up to 32GB
- Four display ports: DP++, LVDS, VGA, DVI-I (DVI-D signal), Supports two independent displays
- DP++ resolution up to 4096x2160 @ 60Hz
DVI-D resolution up to 1920x1200 @ 60Hz
- Multiple expansion: 6 PCI, 1 PCIex16
- Rich I/O: 2 Intel GbE, 10 COM, 4 USB 3.0, 6 USB 2.0



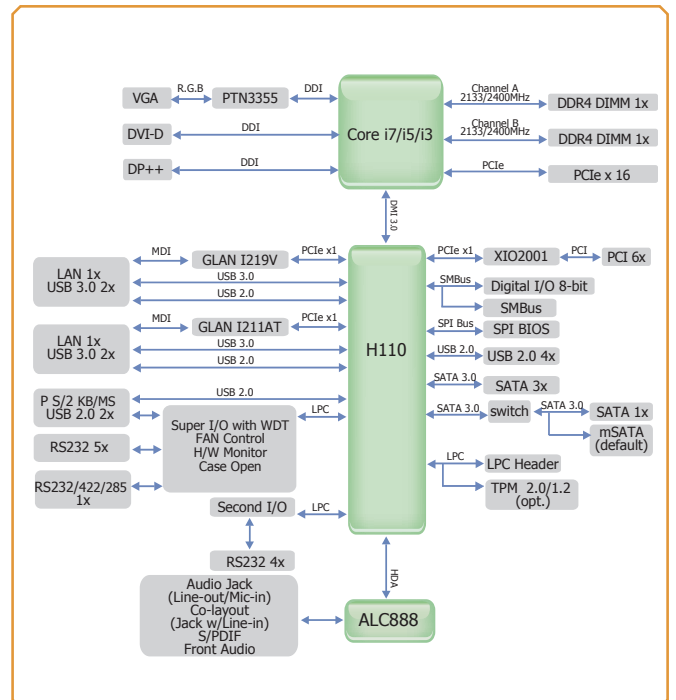
Ordering Information

Model Name	P/N	Memory	GbE	RS-232/422/485	RS-232	USB 3.0	USB 2.0	Power	Thermal	Temp.
KD600-H110	770-KD6002-000G	2 DIMM	2	2	8	4	6	24-pin ATX / 8-pin ATX 12V	Active	0 to 60°C

Mechanical Drawing



Block Diagram



Specifications

SYSTEM	Processor	6th/7th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Socket Processors with TDP up to 95W	
	Chipset	Intel® H110 Chipset	
	Memory	2 288-pin DIMM up to 32GB	Dual Channel DDR4 2133/2400MHz
	BIOS	Insyde SPI 128Mbit	
GRAPHICS	Controller	Intel® HD Gen 9 Graphics	
	Feature	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/H.264, JPEG, HEVC/H265, VP8, VP9	
	Display	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
	Dual Displays	VGA + LVDS VGA + DVI-I (DVI-D signal) VGA + DP++	LVDS + DVI-I (DVI-D signal) LVDS + DP++ DVI-I (DVI-D signal) + DP++
EXPANSION	Interface	6 x PCI	1 x PCIe16
AUDIO	Audio Codec	Realtek ALC888S-VD2-GR	
ETHERNET	Controller	1 x Intel® I219V PCIe (10/100/1000Mbps) 1 x Intel® I211AT PCIe (10/100/1000Mbps)	
REAR I/O	Ethernet	2 x GbE (RJ-45)	
	USB	4 x USB 3.0	2 x USB 2.0
	Serial	1 x RS-232/422/485 (RS-232 w/ power) (DB-9)	
	PS/2	1 x PS/2 (mini-DIN-6)	
	Display	1 x VGA 1 x DVI-I (DVI-D signal) 1 x DP++	
	Audio	1 x Line-out, 1 x Mic-in, 1 x Line-in (opt., MOQ required)	
INTERNAL I/O	Serial	1 x RS-232/422/485 (RS-232 w/ power) (2.54mm pitch) 8 x RS-232	
	Display	1 x LVDS	
	Audio	1 x Front Audio, 1 x S/PDIF	
	USB	4 x USB 2.0	
	SATA	4 x SATA 3.0 (up to 6Gb/s) 1 x mSATA (co-lay with SATA_4)	
	DIO	1 x 8-bit DIO	
	LPC	1 x LPC	
	SMBus	1 x SMBus	
	WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds
SECURITY	TPM	Infineon TPM2.0/1.2 (opt., MOQ required)	
POWER	Type	ATX	
	Connector	8-pin ATX 12V power	24-pin ATX power
	Consumption	Typical: i7-7700: 3.3V @ 0.45A (1.485Watt); 5V @ 0.64A (3.2Watt); 12V @ 0.59A (7.08Watt) Max.: i7-7700:3.3V @ 0.44A (1.452Watt); 5V @ 0.76A (3.8Watt); 12V @ 7.41A (88.92Watt)	
	RTC Battery	CR2032 Coin Cell	
OS SUPPORT		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.	
ENVIRONMENT	Temperature	Operating: 0 to 60°C Storage: -30 to 60°C with RTC Battery; -40 to 85°C without RTC Battery	
	Humidity	Operating: 5 to 90% RH	Storage: 5 to 90% RH
	MTBF	TBD	
	MECHANICAL	Dimensions	ATX form factor
Height		PCB: 1.6mm	Top Side: 37.35mm, Bottom Side: 4.4mm

Packing List

• 1 KD600-H110 motherboard	
• 1 COM port cable (W/Bracket, 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
• USB 3.0 port cable (Length: 320mm)	A81-001052-023G
• COM port cable (W/Bracket, Length: 300mm, 2 x COM ports)	A81-015026-023G
• Serial ATA data cable (Length: 500mm)	332-553001-005G
• I/O shield	A49-KD6000-000G
• Thermal Solution (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
• DP to HDMI dongle	612-D2H13M-000G