

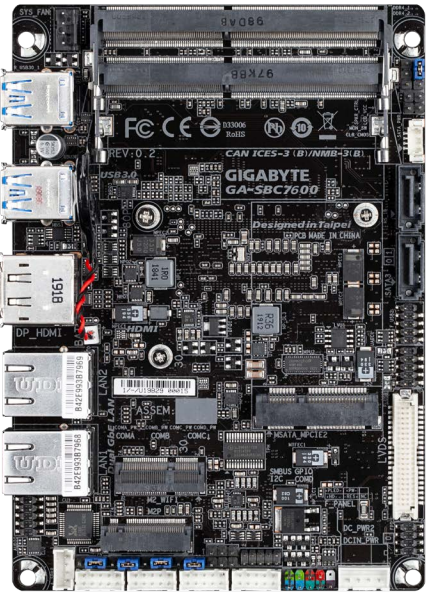
GIGABYTE™

GA-SBC7600

Intel® KabyLake-U MCP

Embedded SBC MB

Overview



Rear I/O

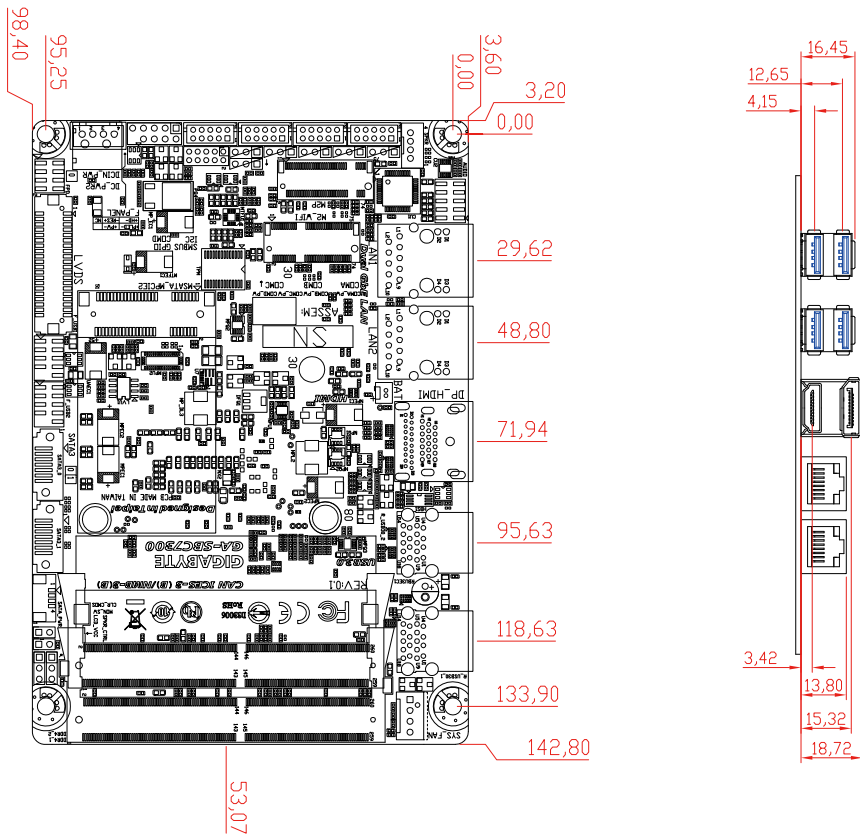


Product Feature

- Intel® Kaby lake ULT Core i7-7600U MCP Processor
- Integrated Intel® Gen 8 Graphics DX 12*, OGL4.5
- Supports Dual Channel DDR4 2133 MHz, 2 x SO-DIMM, up to 16GB system memory
- 1 x HDMI1.4a, 1x Display port,1 x Dual Channel 24-bit LVDS
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA3
- 1 x mini-PCIe, solt co-lay with mSATA
- Gigabit LAN : 2 x Intel® Lan
- 1 x TPM2.0 Module IC onboard
- 9-36 V DC-in

SPEC		
Form Factor	PCB Size	SBC (5.74 x 4 inch) (146 x 102 mm)
Processor System	CPU	Intel® Core I series kaby lake U i7-7600U MCP Processor
		Supports Hyper-Threading Technology
		Default i7-7600 Quad core 15W processor
Expansion Slot	PCI	0
	Mini-PCIe	1x Full size mini-PCIe slot, co-lay with mSATA
	PCIe	0
	M.2	1 x M.2 2280 slot for storage 1 x M.2 Wifi slot
Memory	Technology	Dual Channel DDR4 2133 MHz SDRAM
	Max.	16G
Graphics	Controller	Intel® Gen8 Intel Graphics DX 12*, OGL4.5
	VRAM	Shared Memory
	VGA	N/A
	LVDS	Dual channel 24-bit , max resolution 1920 x 1200@60Hz
	HDMI	Yes
	DVI	No
	Display Port	Yes, max resolution 4096x2304@60Hz
	Multi Display	Yes (Dual Display)
LAN	Controller	1 x Intel i211AT, 1 x Intel i219LM
SATA	Max DTR	SATA3 (6.0Gb/s)
Rear I/O	VGA	0
	HDMI	1
	Display Port	1
	Ethernet	2
	USB	4 x USB 3.0
	Audio	0
	Serial	0
Internal Connector	USB	4 x USB 2.0 compliant
	LVDS/Inverter	1
	VGA	0
	Serial	4 x RS-232 (COM1/2 support RS-232/RS-422/485)
	SATA	2 x SATA3 (6.0Gb/s)
	Mini-PCIe	1(1 x co-lay with mSATA SSD)
	Parallel	0
	Digital I/O	4 in/4 out
Watchdog Timer	Output	From Super I/O to drag RESETCON#
		256 segments, 0,1,2...255sec/min
Power Requirements	Input PWR	9~36V DC-in 4-pin PWR connector (co-lay with Pheonix connector)
		AT/ATX Supported
	Power On	AT: Directly PWR on as Power input ready
		ATX: Press Button to PWR on after Power input ready
Power consumption	Typical	TBD
Certification	EMC	CE/FCC
Environment	Operating Temperature	0°C – 60°C

Mechanism Drawing



Ordering Information

Model Name	Ordering Information
GA-SBC7600	KabyLake-U, 2 x DDR4 SoDIMM, HDMI, Dual channel 24 bit LVDS, DP, SATA3, Dual LAN, 4 x USB3.0, 4 x USB2.0 Mini PCIe/mSATA, M.2 WIFI, M.2 SSD, DC in 9~36V, 0~60 degree, TPM, 4 in/4out DIO, I2C, SMBUS

Optional Accessories

Part Number	Cable Usage	Description
12CF1-1CM011-01R	COM	1IN1 CB/JST 2*5P/PH2/KIMWELL COM 9MA(PC99)/200mm+SCREW*2
12CF1-2SAT1B-01R	SATA	2IN1 CB/SATA(S)/BLACK/CODE CPU90*180*1/180*180*1/2H*8P/50 CM
12CF1-1SATPW-91R	SATA Power	1IN1 CB FOR SATA POWER/KIMWELL
12CR1-1AU001-21R	AUDIO Cable	AUDIO*2(LINE OUT/MIC)/KIMWELL

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