

TECH 4U 811-786

LGA1151 8th/9th Generation Intel® Core™ i7/i5/i3 ATX with Triple Display, DDR4, USB 3.1, SATA 3.0



Conforming to BIS Standard IS 13252 (Part-1): 2010



CE FCC

Specifications

	CPU	i7-9700E	i7-9700TE	i7-8700	i7-8700T	i5-9500E	i5-9500TE	i5-8500	i5-8500T	i3-9100E	i3-9100TE	i3-8100	i3-8100T
Processor System	Speed	2.6GHz	1.8 GHz	3.2 GHz	2.4 GHz	3.0 GHz	2.2 GHz	3.0 GHz	2.1 GHz	3.1 GHz	2.2 GHz	3.6 GHz	3.1 GHz
	L3 Cache	12 MB	12 MB	12 MB	12 MB	9 MB	9 MB	9 MB	9 MB	6 MB	6 MB	6 MB	6 MB
	Cores	8	8	6	6	6	6	6	6	4	4	4	4
	TDP	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W
	Socket	LGA1151											
	Chipset	Q370											
	BIOS	AMI 256 Mbit SPI											
Expansion Slot	PCI	32-bit/33 MHz, 2 slots											
	PCIe x4 (Gen 3)	4 GB/s per direction, 4 slots											
	PCIe x16 (Gen 3)	16 GB/s per direction, 1 slot											
Memory	Technology	Dual Channel (Non-ECC) DDR4 2400/2666											
	Max. Capacity	128 GB											
	Socket	4 x 288-pin DIMM											
Graphics	Controller	Intel HD Graphics											
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed											
Ethernet	Interface	10/100/1000 Mbps											
	Controller	GbE LAN1: Intel I219-LM, GbE LAN2: Intel I211-AT											
	Connector	2 x RJ-45											
SATA	Max Data Transfer Rate	600 MB/s											
	Channel	5											
	RAID	0,1,5,10											
Rear I/O	VGA	1 (Resolution up to 1920 x 1200 @ 60 Hz)											
	DVI-D	1 (Resolution up to 1920 x 1200 @ 60 Hz)											
	DisplayPort	1 (Resolution up to 4096 x 2304 @ 60 Hz)											
	Ethernet	2											
	USB	8 (2 x USB 3.1 Gen 2, 2 x USB 3.1 Gen 1, 4 x USB 2.0)											
	Audio	2 (Line-out, Mic-in)											
	Serial	1 (RS-232)											
Internal Connectors	PS/2	-											
	USB	5 (2 x USB 3.1 Gen 1 via header, 2 x USB 2.0 via header, 1 x USB 2.0 Type-A connector)											
	Serial	5 (4 x RS-232, 1 x RS-232/422/485)											
	SATA	5											
	Parallel	1											
	DisplayPort	1											
	GPIO	8-bit											
Watchdog Timer	Output	System reset											
	Interval	Programmable 1 ~ 255 sec											
Power Requirement	Power On	Intel Core i7-8700 3.2 GHz; DDR4 2400 16 GB x 4											
	Voltage	+12V	+5V	+3.3V	+5Vsb	-12V	-5V						
	Current	3.77A	1.77A	2.8A	0.1A	0.04A	0.06A						
Environment	Operating	Non-Operating											
	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU speed and system thermal solution											
Physical Characteristics	Humidity	40 °C @ 95% RH Non-condensing											
	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")											

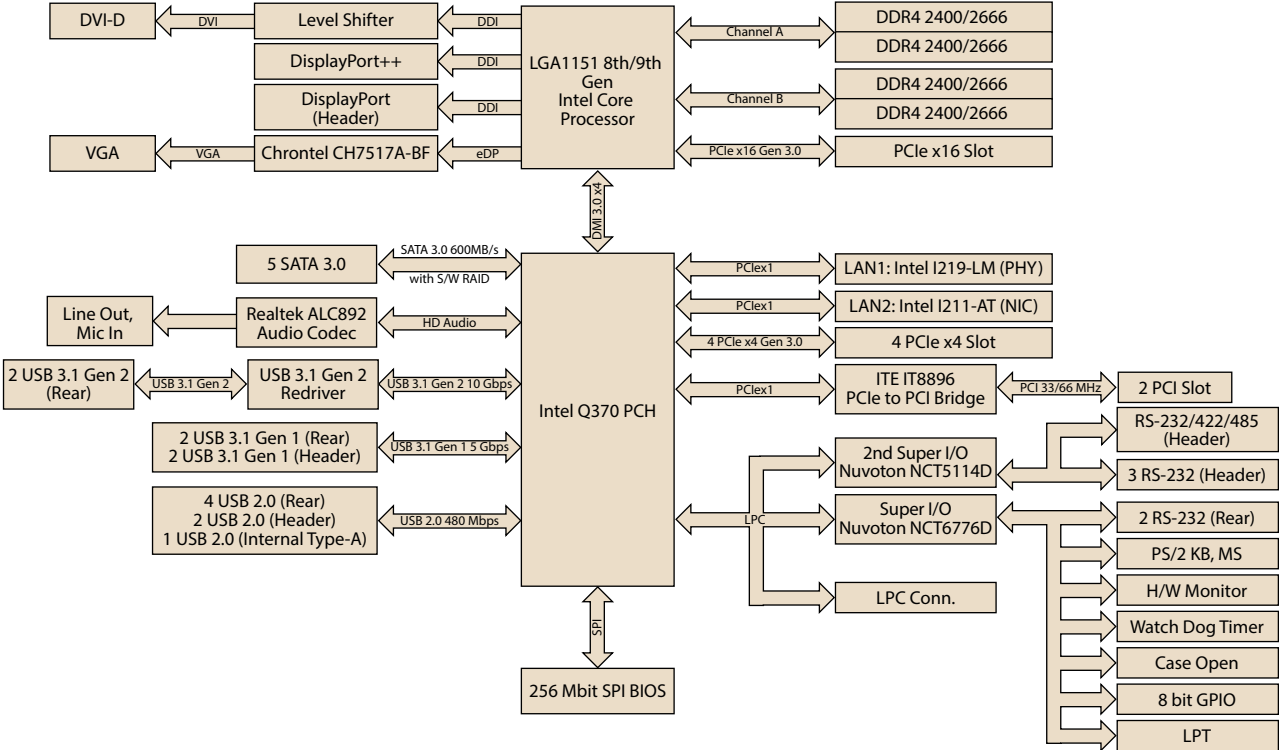
Features

- Intel® 8th/9th generation Core™ i7/i5/i3 processor with Q370 chipset.
- Four DIMM sockets up to 128 GB DDR4 2400/2666
- Triple display VGA/DVI-D/DP and dual GbE LAN
- SATA RAID 0, 1, 5, 10, USB 3.1
- Supports Intel vPro, AMT & TPM technologies.
- Dual channel (Non-ECC) DDR4 1866/2133 up to 32GB
- Support 5 x RS-232 serial ports
- 1 x PCIe x16 (Gen3) and 4 x PCIe x4 (Gen2), and 2 x PCI expansion slots
- Supports Redundant ATX power supplies.
- Easy to install front-accessible drive bays to hold three 5.25" and one 3.5" disk drives.
- Front-accessible USB & PS/2 interfaces.
- Designed to withstand environmental extremes, such as shock, vibration and high temperature.
- Front LEDs indicate power status, and HDD activity.
- Lockable front door prevents unauthorized access.
- Dual front-accessible filtered cooling fans provide optimized and streamlined airflow.
- Supports Internal 5.25" DVD-RW.

Note 1: TPM module is required to enable Intel vPro and TPM technologies.

Note 2: Intel 8th/9th generation processors only support Windows 10 (64-bit).

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Display	USB 3.1 Gen 2	USB 3.1 Gen 1	USB 2.0	COM	GbE LAN	AMT	SATA 3.0	SW RAID
TECH 4U 811-786	Q370	Non-ECC DDR4 2400/2666 up to 128 GB	VGA + DVI-D + DP	2	4	7	6	2	Yes	5	Yes

Front View



Rear View



Bracket View

