

TECH 4U 811-787

LGA1200 10th Generation Intel® Core™ i9/i7/i5/i3 ATX with DP/DVI/VGA, DDR4, USB 3.2, M.2



BIS
Regn.No.
R-85000140

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



CE FCC

Features

- Intel® 10th generation Core™ i9/i7/i5/i3 processor with Q470E chipset
- Four DIMM sockets up to 128 GB DDR4 2933
- Triple display DP/DVI-D/VGA and dual GbE LAN
- M.2, SATA RAID 0, 1, 5, 10, USB 3.2
- Supports Intel vPro, AMT & TPM technologies
- 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.

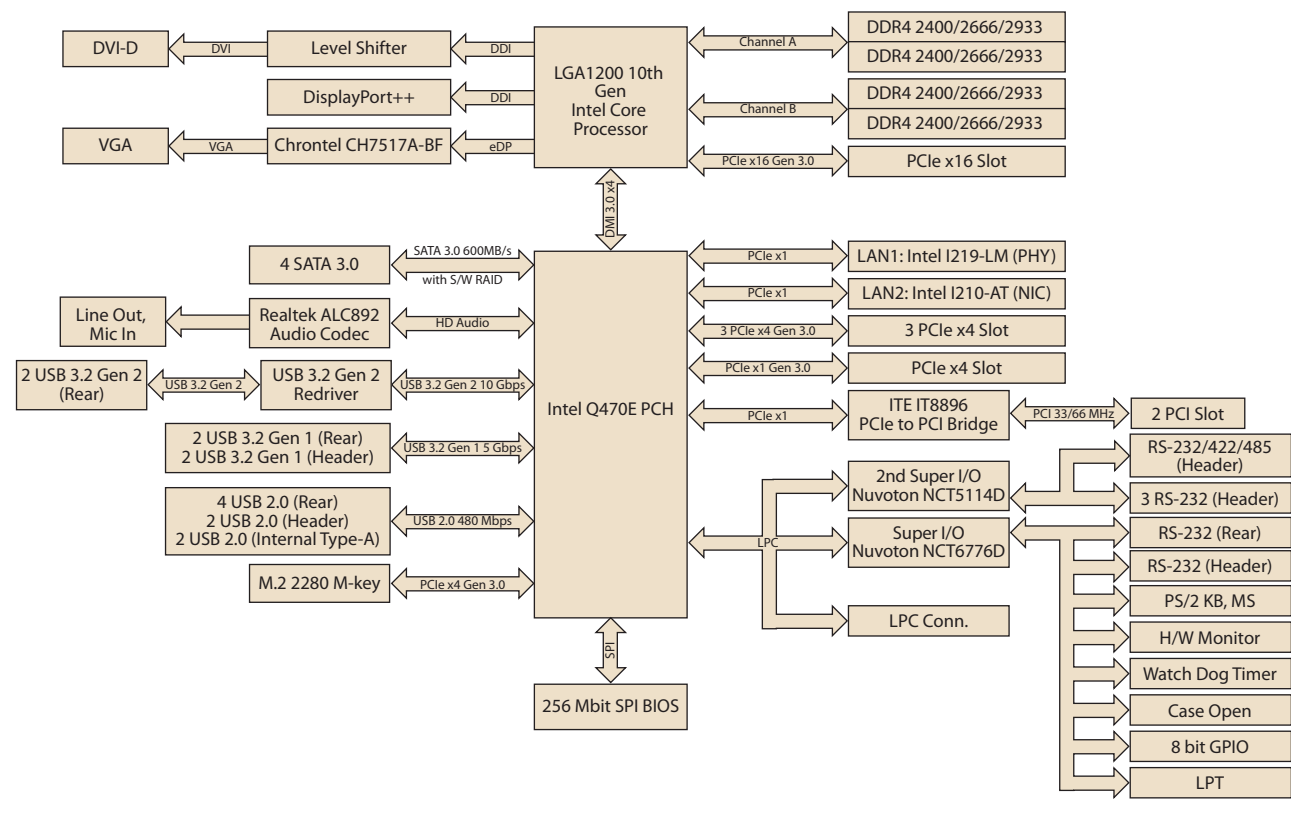
Note 1: TPM module is required to enable Intel vPro and TPM technologies.

Note 2: Legacy platform is not supported.

Specifications

		i9-10900K	i9-10900	i7-10700	i7-10700K	i5-10500	i5-10500TE	i3-10100	i3-10100TE
Processor System	CPU	i9-10900K	i9-10900	i7-10700	i7-10700K	i5-10500	i5-10500TE	i3-10100	i3-10100TE
	Base Frequency	3.7 GHz	2.8 GHz	2.9 GHz	3.8 GHz	3.1 GHz	2.3 GHz	3.6 GHz	2.3 GHz
	L3 Cache	20 MB	20 MB	16 MB	16 MB	12 MB	12 MB	6 MB	6 MB
	Cores	10	10	8	8	6	6	4	4
	TDP	125 W	65 W	65 W	125 W	65 W	35 W	65 W	35 W
	Socket	LGA1200							
	Chipset	Q470E							
Expansion Slot	BIOS	AMI 256 Mbit SPI							
	PCI	2 (32-bit/33 MHz)							
	PCIe x4 (Gen 3)	4 (3 x link x4, 1 x link x1)							
Memory	PCIe x16 (Gen 3)	1							
	Technology	Dual Channel (Non-ECC) DDR4 2400/2666/2933							
	Max. Capacity	128 GB							
Graphics	Socket	4 x 288-pin DIMM							
	Controller	Intel HD Graphics							
Ethernet	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed							
	Interface	10/100/1000 Mbps							
	Controller	GbE LAN1: Intel I219-LM, GbE LAN2: Intel I210-AT							
SATA	Connector	2 x RJ-45							
	Max Data Transfer Rate	600 MB/s							
	Channel	4							
Rear I/O	RAID	0,1,5,10							
	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 3.2 Gen 2, 2 x USB 3.2 Gen 1, 4 x USB 2.0)							
	Audio	2 (Line-out, Mic-in)							
	Serial	1 (RS-232)							
Internal Connectors	USB	6 (2 x USB 3.2 Gen 1 via header, 2 x USB 2.0 via header, 2 x USB 2.0 Type-A connector)							
	Serial	5 (4 x RS-232, 1 x RS-232/422/485)							
	SATA	4							
	M.2	1 (PCIe x4 M-key 2280 type)							
	Parallel	1							
	GPIO	8-bit							
	PS/2 KB/Mouse	1 (Optional PS/2 KB/Mouse Cable is required)							
Watchdog Timer	Output	System reset							
	Interval	Programmable 1 ~ 255 sec							
Power Requirement	Power On	Intel Core i5-10500E; DDR4 32 GB x 4							
	Voltage	+12V	+5V			+3.3V	+5Vsb	-12V	
	Current	7.58A	1.92A			0.87A	0.14A	0.08A	
Environment	Operating								Non-Operating
	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU speed and system thermal solution							-40 ~ 85 °C (-40 ~ 185 °F)
	Humidity	40 °C @ 95% RH Non-condensing							60 °C @ 95% RH Non-condensing
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")							

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Display	USB 3.2 Gen 2	USB 3.2 Gen 1	USB 2.0	COM	GbE LAN	AMT	M.2	SATA 3.0	SW RAID
TECH 4U 811-787	Q470E	Non-ECC DDR4 2400/2666/2933 up to 128 GB	VGA + DVI-D + DP	2	4	8	6	2	Yes	1	4	Yes

Front View



Rear View



Bracket View

