

TECH4U-610-787

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

Specifications

		i9-	i9-	i7-	i7-	i5-	i5-	i3-	i3-
		10900E	10900TE	10700E	10700TE	10500E	10500TE	10100E	10100TE
Processor System	CPU								
	Base Frequency	2.8 GHz	1.8 GHz	2.9 GHz	2.0 GHz	3.1 GHz	2.3 GHz	3.2 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	65 W	35 W	65 W	35 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)							
	PCIe x16 (Gen 3)	1							
Memory	Technology	Dual Channel (Non-ECC) DDR4 2400/2666/2933							
	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 I210-AT							
	Connector	2 x RJ-45							
SATA	Max Data Transfer Rate	600 MB/s							
	Channel	4							
	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 3.2 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	0 ~ 60 °C (32 ~ 140 °F), depends on CPU speed and system thermal solution							Non-Operating
	Humidity	40 °C @ 95% RH Non-condensing							-40 ~ 85 °C (-40 ~ 185 °F)
									60 °C @ 95% RH Non-condensing
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 466 mm (19" x 7" x 17.6")							

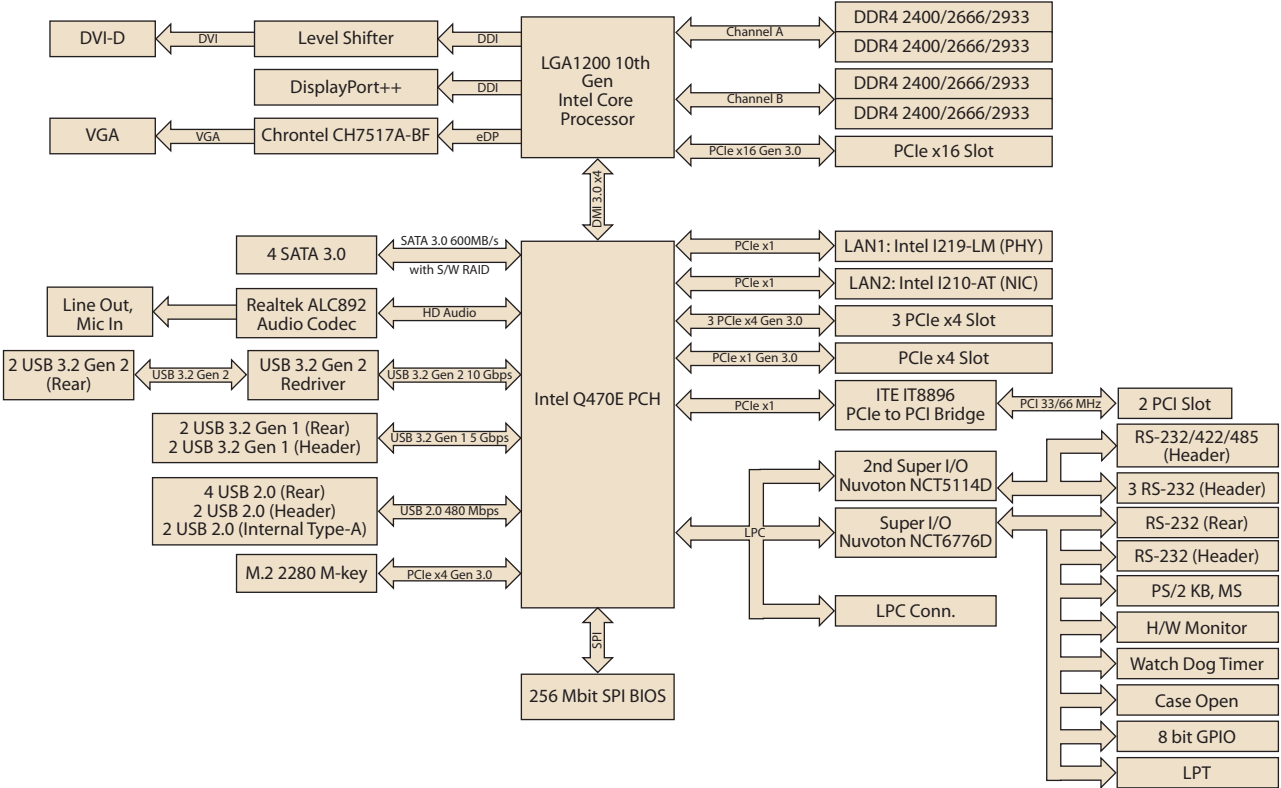
Features

- 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 400 W ATX PFC PS/2 power supply
- Easy to install front-accessible drive bays to hold three 5.25" and two 3.5" disk drives (one front-accessible & one internal).
- Front-accessible USB & PS/2 interfaces.
- Front LEDs indicate power status, and HDD activity.
- Lockable front door prevents unauthorized access.
- Supports Internal 5.25" DVD-RW.

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

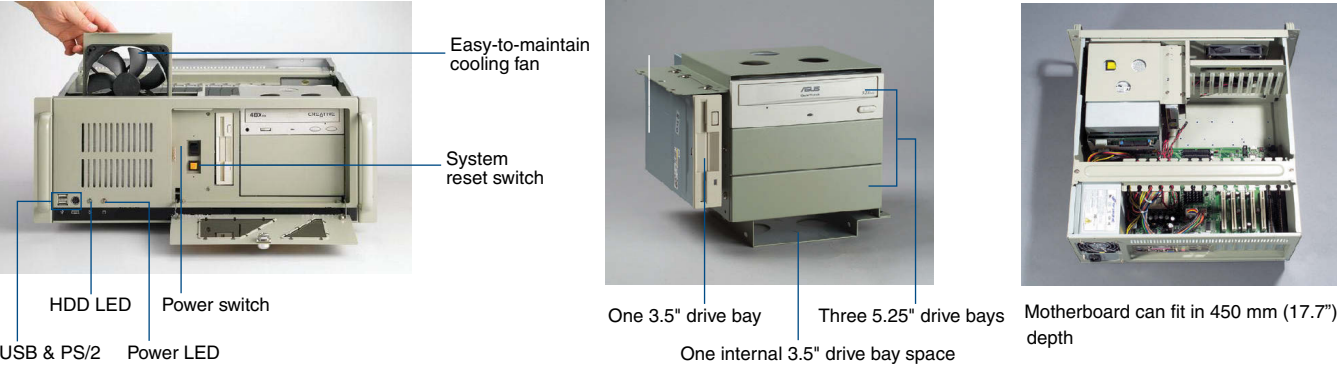
Note 2: Legacy platform is not supported.

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
TECH4U-610-787	Q470E	Non-ECC DDR4 2400/2666/2933 up to 128 GB	VGA + DVI-D + DP	2	4	8	6	2	Yes	1	4	Yes



Bracket View

