

TECH 4U 611-586

Intel® Xeon® E3/ 8th & 9th Gen Core™ i7/i5/i3 LGA1151, MicroATX with HDMI/2 DP++/eDP (LVDS)/6 COM, 2 LANs, USB 3.1, ATX



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

Features

- Supports Intel® Xeon® 8th / 9th Gen Core™ i7/i5/i3 processor with Q370/C246 chipset.
- Supports triple displays. (HDMI, 2DP++, eDP or LVDS display)
- Supports Intel AMT 12.0 and Intel vPro competent
- Supports PCIe Gen3, max up to 4x USB 3.1 (Gen2), 2x USB 3.0, 8x SATAIII, 2x GbE LAN, 2x M.2 (M & E Key)
- Supports Software RAID 0, 1, 5, 10, TPM 1.2/2.0 (optional)
- Supports DeviceOn and Embedded Software APIs.
- Supports 400 W ATX PFC PS/2 power supply.
- Easy to install front-accessible drive bays to hold three 5.25" and one 3.5" disk drives.
- 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.

Specifications



Utilities:

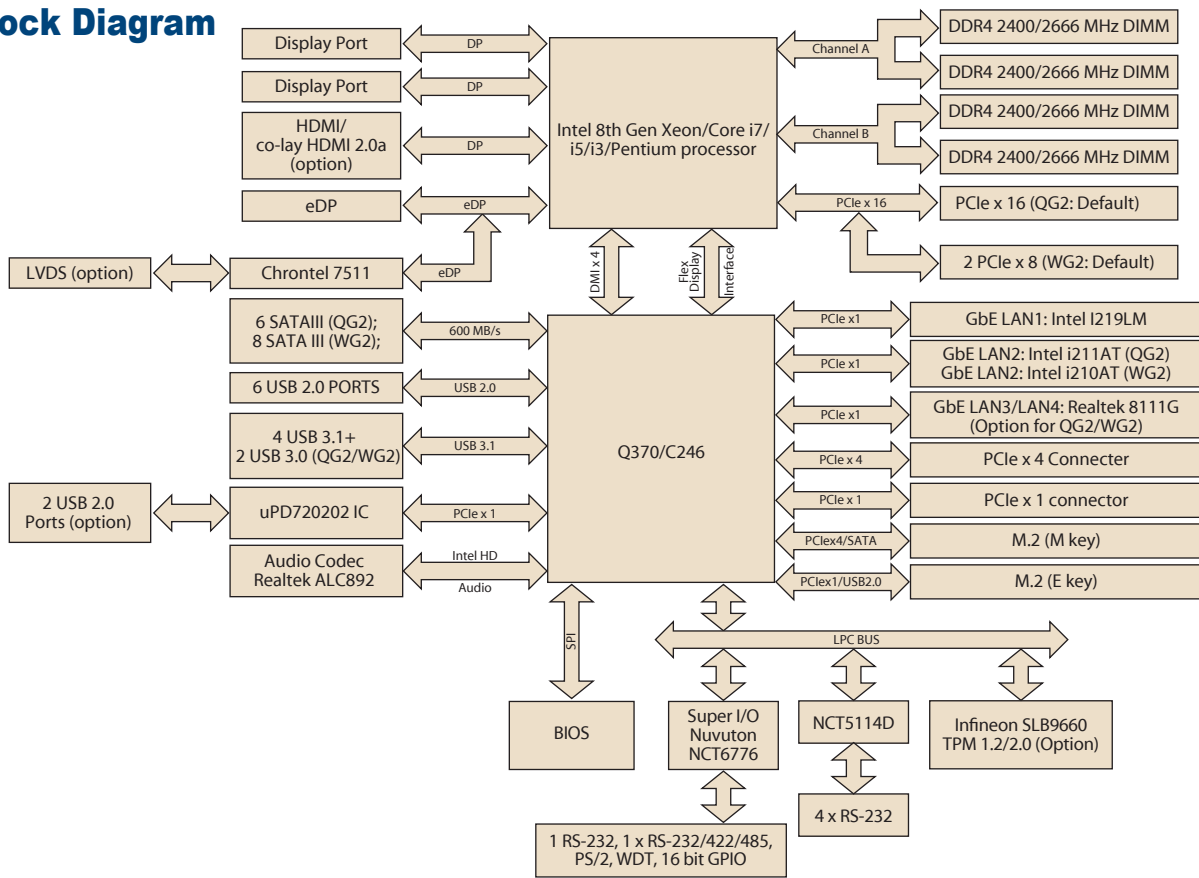


Software APIs:



	CPU	E-2176G/ E-2124G	E-2278GE/ E-2278GEL	E-2226GE	i7-9700E/ i7-9700TE	i7-8700/ i7-8700T	i5-9500E/ i5-9500TE	i5-8500/ i5-8500T	i3-9100E/ i3-9100TE	i3-8100/ i3-8100T	G5400/ G5400T	G4900/ G4900T							
Processor System	Core Number	6/4	8/ 8	6	8/ 8	6/6	6/6	6/6	4/4	4/4	2/2	2/2							
	Max. Speed	3.7GHz/ 3.4 GHz	3.3GHz/ 2.0 GHz	3.4GHz	2.6GHz/ 1.8GHz	3.2GHz/ 2.4GHz	3.0GHz/ 2.2GHz	3.0GHz/ 2.1GHz	3.1GHz/ 2.2GHz	3.6GHz/ 3.1GHz	3.7GHz/ 3.1GHz	3.1GHz/ 2.9GHz							
	L3 Cache	12MB/ 8MB	16MB/ 16MB	12MB	12MB/12MB	12MB/12MB	9MB/9MB	9MB/9MB	6MB/6MB	6MB/6MB	4MB/4MB	2MB/2MB							
	TDP (W)	80W/ 71W	80W/ 35W	80W	65W/35W	65W/35W	65W/35W	65W/35W	65W/35W	65W/35W	58W/25W	54W/35W							
	Supports Model	WG2	WG2	WG2	WG2/QG2	WG2/QG2	WG2/QG2	WG2/QG2	WG2/QG2	WG2/QG2	WG2/QG2	WG2/QG2							
Chipset	Q370/C246																		
BIOS	AMI EFI 256 Mbit SPI																		
Expansion Slot	PCIe x1 (Gen3)	1 GB/s per direction, 1 slot																	
	PCIe x4 (Gen3)	4 GB/s per direction, 1 slot																	
	PCIe x8 (Gen3)	8 GB/s per direction, 1 slot																	
	PCIe x16 (Gen3)	16 GB/s per direction, 1 slot (Only x8 Link on WG2 sku)																	
	Technology	Dual Channel DDR4 2400/2666MHz Non-ECC SDRAM/ ECC SDRAM (WG2 only)																	
Memory	Max. Capacity	128GB (32GB per DIMM)																	
	Socket	4 x 288 pin U DIMM (QG2/WG2)																	
Graphics	Controller	Intel HD Graphics Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1																	
	HDMI	1, Supports max resolution HDMI 1.2 1920 x 1200 @ 60 Hz																	
	eDP	1, Internal pin header, supports max. resolution 3840 x 2160 @ 60 Hz (Internal pin header)																	
	LVDS	1 (option), Supports dual channel 48 bits up to 1920 x 1200 (colay with eDP)																	
	Display Port	2, Supports max resolution 4096 x 2304 @ 60 Hz																	
	Triple Display	eDP (LVDS) + DP++ + HDMI, eDP (LVDS) + DP++ + DP++, DP++ + DP++ + HDMI																	
	Dual Display	DP++ + HDMI, DP++ + DP++, DP++ + eDP (LVDS), HDMI + eDP (LVDS)																	
Ethernet	Controller	LAN1: Intel I219LM (QG2/WG2) LAN2: Intel I211AT (QG2) Intel I210AT (WG2)																	
	Connector	RJ 45 x 2																	
SATA	Max Data Transfer Rate	600 MB/s Max. (SATA 3.0)																	
	Q'ty	6 (QG2); 8 (WG2), 1 colay with M.2 M key;																	
Rear I/O	Display Port	2																	
	HDMI	1																	
	Ethernet	2 (Default, Max 4 ports via BOM option on QG2/WG2)																	
	USB	8 (4 USB 3.1, 4 USB 2.0 on QG2/WG2)																	
	Audio	2 (Mic-in/ Line-out) (Mic-in could be configured as "Line-in" under Win OS.)																	
Internal Connector	Serial	1 (RS-232)																	
	USB 3.0	2 (QG2/WG2 only)																	
	USB 2.0	2																	
	Serial	5 (4 x RS-232, 1 x RS-232/422/485 with auto flow control supported on QG2/WG2)																	
	SATA 3.0	6 (QG2); 8 (WG2), 1 colay M.2 M-key;																	
	Extended Display Port (eDP)/LVDS	1 (Default: eDP)																	
Watchdog Timer	PS/2 (KBMS1)	1																	
	M.2 (M key)	1 (2280 NVMe PCIe4 and SATA M.2 support, QG2/WG2 only)																	
	M.2 (E key)	1 (2230 for WIFI, QG2/WG2 only)																	
	GPIO	16-bit GPIO																	
	Output Interval	System reset Programmable 1 ~ 255 sec/min																	
Power Requirements	Power On	+5 V			3.3 V			12 V			12V_4P			5 Vsb			-12 V		
		+1.361A			0.473A			0.365A			5.985A			0A			0A		
	Operating	Intel Core i7-8700, 16 GB DDR4 x 4pcs																	
Environment	Temperature	0 ~ 60° C (14 ~ 158° F), depends on CPU speed and cooler solution																	
	Non-Operating	-40 ~ 85° C (-40 ~ 185° F)																	
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")																	
Power	Input Mode	ATX input (Default)																	

Block Diagram



Ordering Information

Part Number	Chipset	USB3.1	USB 3.0	USB 2.0	DP/HDMI	eDP (LVDS)	GbE LAN	SATA III	COM	PClex16	PClex8	PClex4	PClex1	M.2 E-key	M.2 M-key	TPM
TECH 4U 611-586	Q370	4	2	6	2/1	1/(1)	2	6	6	1	1	1	1	1	1	(1)
	C246	4	2	6	2/1	1/(1)	2	8	6	(-)	2	1	1	1	1	(1)

Front View



Rear View



I/O View

