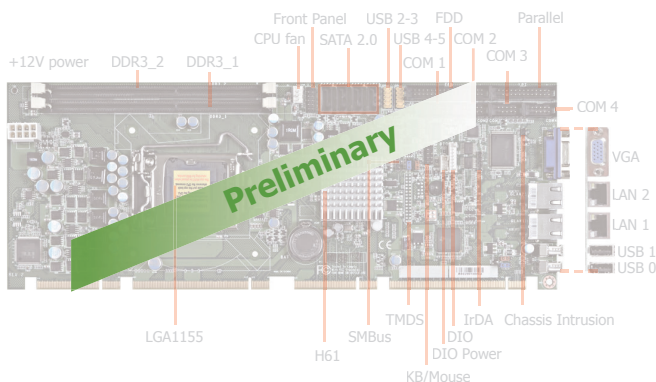


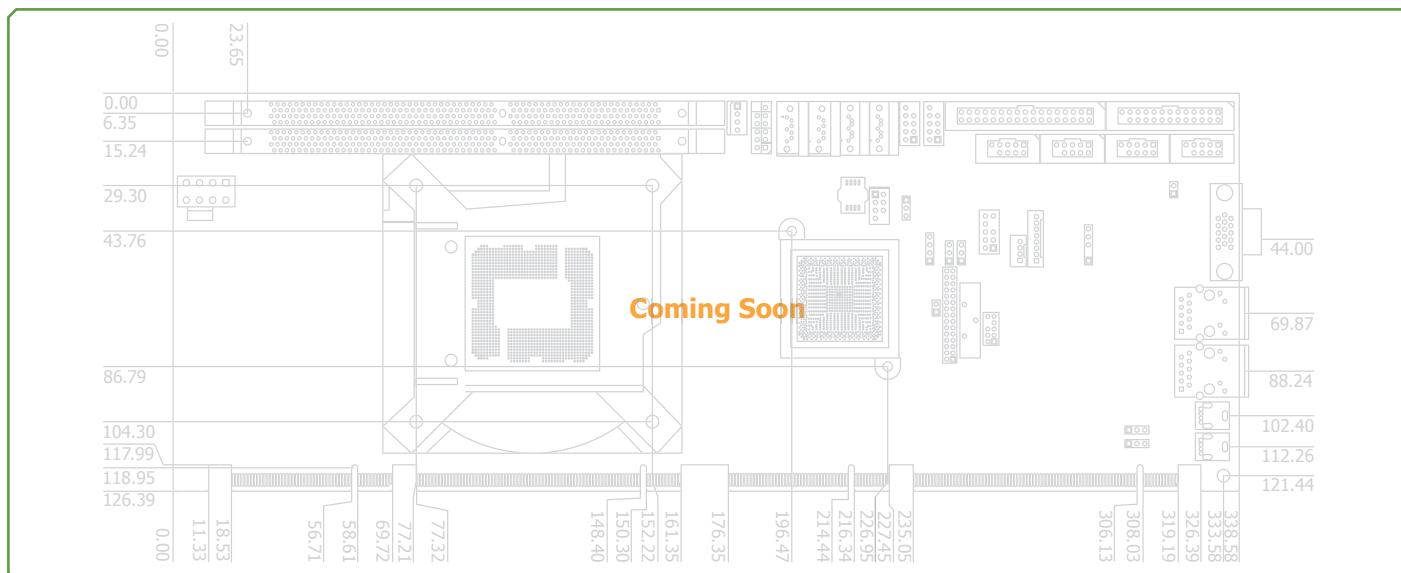
PIC-Q170/H110

► Features

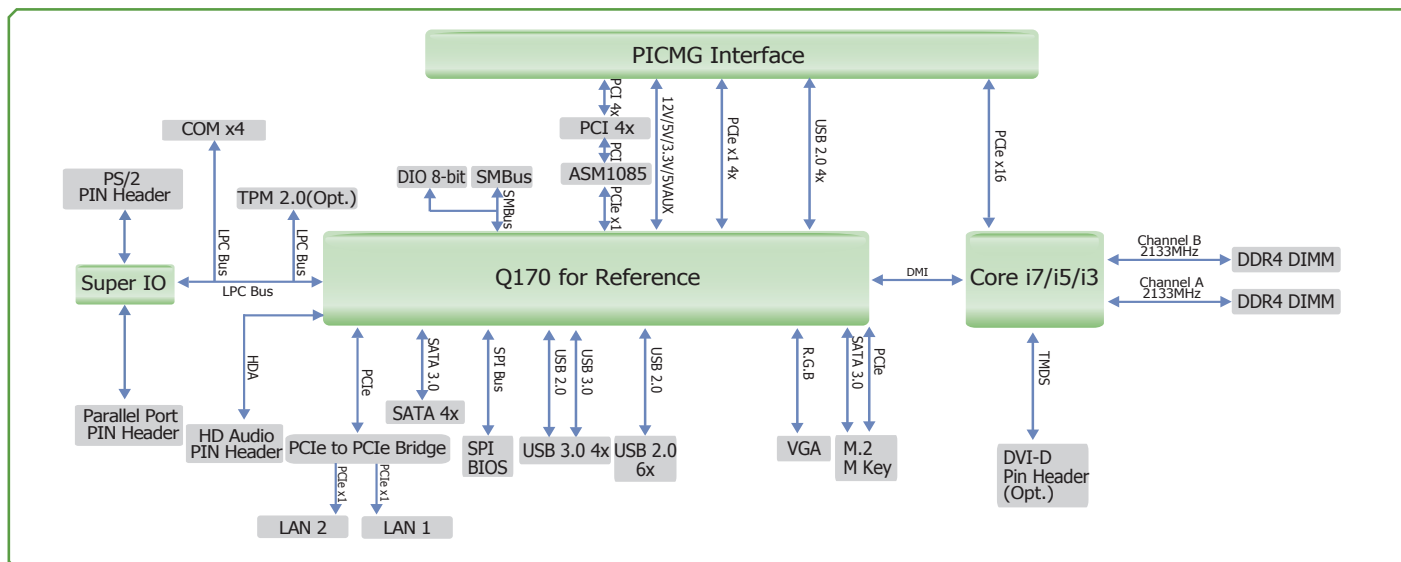
- **2 DDR4 DIMM up to 32GB**
- **2 independent displays:**
VGA + DVI-D (available upon request)
- **DVI resolution up to 1920x1200 @ 60Hz**
- **Expansion: 1 PCIe x16 Gen. 3, 4 PCIe x1 Gen. 3, 4 PCI**
- **Rich I/O: 2 Intel GbE, 4 USB 3.0, 6 USB 2.0, 1 M.2**



► Mechanical Drawing



► Block Diagram



Specifications

SYSTEM	Processor	7th Generation Intel® Core™ Processors, LGA1151 Intel® Core™ i7-7700 Processor, Four Core, 8M, 3.6GHz (4.2GHz), 65W Intel® Core™ i7-7700T Processor, Four Core, 8M, 2.9GHz (3.8GHz), 35W Intel® Core™ i5-7500 Processor, Four Core, 6M, 3.4GHz (3.8GHz), 65W Intel® Core™ i5-7500T Processor, Four Core, 6M, 2.7GHz (3.3GHz), 35W Intel® Core™ i3-7101E Processor, Dual Core, 3M, 3.9GHz, 54W Intel® Core™ i3-7101TE Processor, Dual Core, 3M, 3.4GHz, 35W Intel® Core™ G3930E Processor, Dual Core, 2M, 2.9GHz, 54W Intel® Core™ G3930TE Processor, Dual Core, 2M, 2.7GHz, 35W 6th Generation Intel® Core™ Processors, LGA1151 Intel® Core™ i7-6700 Processor, Four Core, 8M, 3.4GHz (4.0GHz), 65W Intel® Core™ i7-6700TE Processor, Four Core, 8M, 2.4GHz (3.4GHz), 35W Intel® Core™ i5-6500 Processor, Four Core, 6M, 3.2GHz (3.6GHz), 65W Intel® Core™ i5-6500TE Processor, Four Core, 6M, 2.3GHz (3.3GHz), 35W Intel® Core™ i3-6100 Processor, Dual Core, 4M, 65W Intel® Core™ i3-6100TE Processor, Dual Core, 4M, 2.7GHz, 35W Intel® Core™ G4400 Processor, Dual Core, 3M, 3.3GHz, 65W Intel® Core™ G4400TE Processor, Dual Core, 3M, 2.9GHz, 35W Intel® Core™ G3900 Processor, Dual Core, 2M, 2.8GHz, 65W Intel® Core™ G3900TE Processor, Dual Core, 2M, 2.6GHz, 35W	
	Chipset	Q170/H110	
	Memory	Two 288-pin DIMM up to 32GB	Dual Channel DDR4 1866/2133MHz
	BIOS	Insyde SPI 128Mbit	
	Display	1 x VGA 1 x DVI-D (available upon request)	VGA: resolution up to 1920x1200 @ 60Hz DVI: resolution up to 1920x1200 @ 60Hz
GRAPHICS	Dual Displays	VGA + DVI-D (available upon request)	
	Interface	1 x PCIe x16 Gen. 3 4 x PCIe x1 Gen. 3 4 x PCI 1 x M.2 M key 2280 (PCIe/SATA3.0) (Q170 only)	
EXPANSION	Controller/Phy	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PCIe with iAMT11.6 (10/100/1000Mbps)	
ETHERNET	Ethernet	2 x GbE (RJ-45)	
	USB	2 x USB 3.0	
	Display	1 x VGA 1 x DVI-D (available upon request)	
REAR I/O	Serial	2 x RS232/422/485 (2.54mm pitch) 2 x RS232 (2.54mm pitch)	
	USB	2 x USB 3.0 (2.0mm pitch) (Q170 only) 6 x USB 2.0 (2.54mm pitch) (Q170), 4 x USB 2.0 (2.54mm pitch) (H110)	
	Audio	1 x Front Audio (2.54mm pitch)	
	SATA	4 x SATA 3.0 (up to 6Gb/s)	
	DIO	1 x 8-bit DIO	
	SMBus	1 x SMBus	
	ATX	ATX 12V Power Connector and Expansion Goldfinger	
	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
WATCHDOG TIMER	TPM	fTPM2.0 or DTPM2.0(optional)	
SECURITY		TBD	
POWER CONSUMPTION		TBD	
OS SUPPORT	Microsoft	Windows 7 (32/64 bit) Windows 8.1 (64 bit) Windows 10 IoT Enterprise (64 bit) Note: 7th Gen Intel Core processors only support Win 10.	
	Linux	Ubuntu 16.04	
ENVIRONMENT	Temperature	Operating: 0 to 60°C	Storage: -20 to 85°C
	Humidity	Operating: 5 to 90% RH	
	MTBF	TBD	
MECHANICAL	Dimensions	Full Size PICMG 1.3	338mm (13.3") x 126mm (4.8")