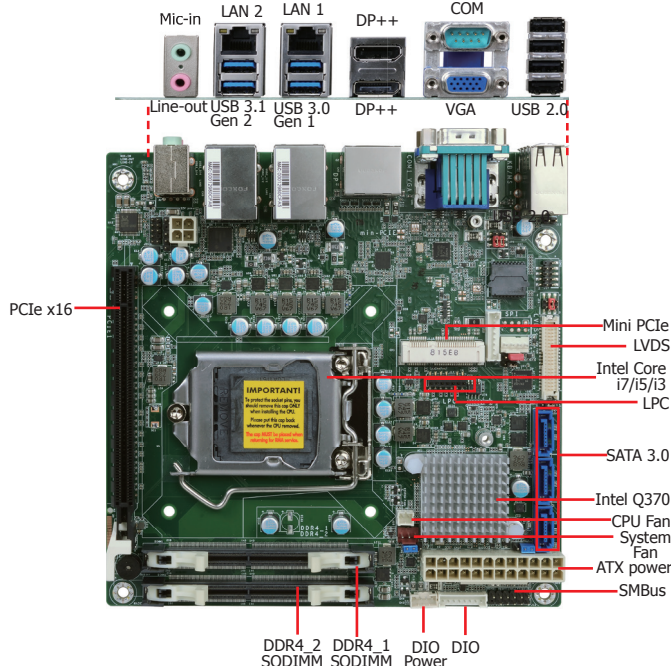




CS100 -Q370/C246/H310

Desktop



Features

- 2 DDR4 1866/2666MHz SODIMM up to 32GB
- Three independent displays:
LVDS + VGA + DP++
- DP++ resolution supports up to 4096x2304 @ 60Hz
- Multiple Expansions:
Q370/C246: 1x PCIe x16 (Gen 3), 1x Full-size Mini PCIe (& mSATA)
H310: 1 x PCIe x16 (Gen 3), 1 x mSATA
- Storage: 3 SATA 3.0
- Rich I/O:
Q370/C246: 2 Intel GbE, 2 COM, 2 x USB 3.1 Gen 2, 2 x USB 3.1 Gen 1, 4 x USB 2.0
H310: 2 Intel GbE, 2 COM, 4 x USB 3.1 Gen 1, 4 x USB 2.0

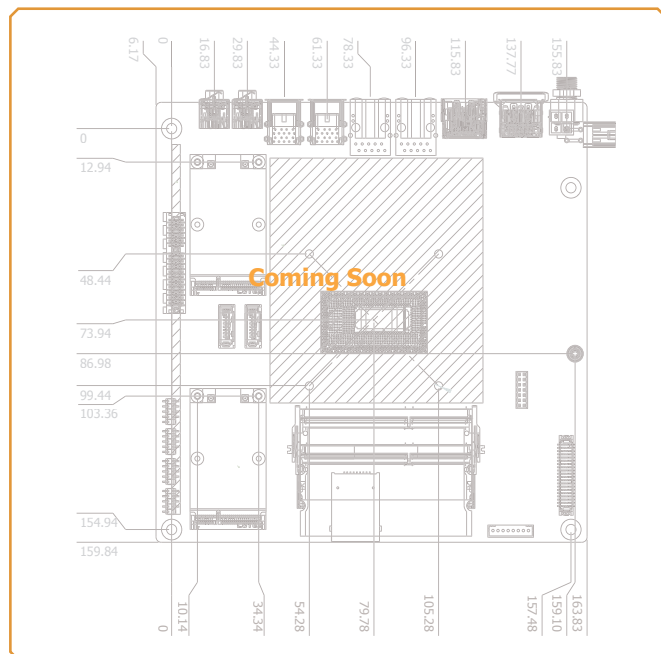


Ordering Information

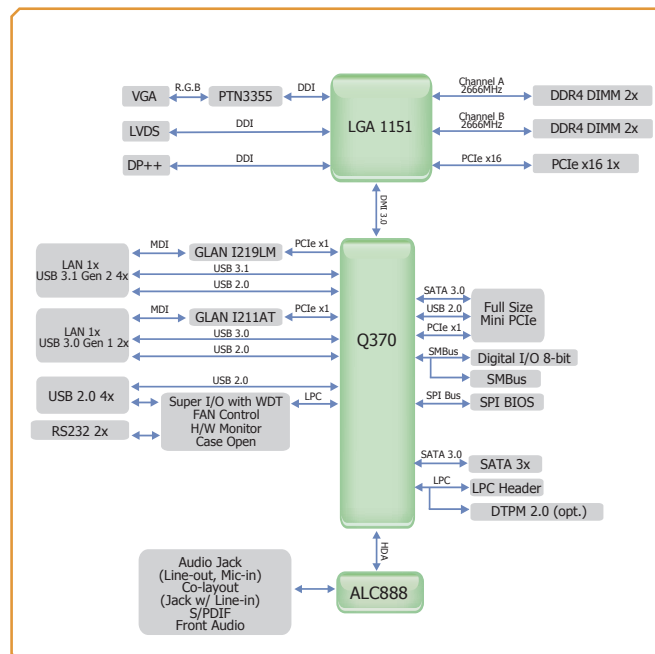
Model Name	P/N	Memory	LVDS/eDP	VGA/DP++	GbE	RS-232	USB 3.1 Gen 2	USB 3.1 Gen 1	USB 2.0	SATA 3.0	TPM	Power	Thermal	Temp.
CS100-Q370	TBD	2 SODIMM	LVDS	DP++	2	2	4	2	8	3	2.0	12V DC	Fanless	0 to 60°C
CS100-C246	TBD	2 SODIMM	LVDS	DP++	2	2	4	2	8	3	2.0	12V DC	Fanless	0 to 60°C
CS100-H310	TBD	2 SODIMM	LVDS	DP++	2	2	0	4	4	3	2.0	12V DC	Fanless	0 to 60°C

Note: If you would like to have the CPU configuration which is not listed on our ordering, please contact our sales representative.

Mechanical Drawing



Block Diagram



Specifications

SYSTEM	Processor	8th Generation Intel® Core™ Processors, LGA 1151 Socket, TDP up to 80W Intel® Xeon E-2176G Processor Intel® Core™ i7-8700 Processor Intel® Core™ i5-8500 Processor Intel® Core™ i3-8100 Processor Intel® Pentium G5400 Processor Intel® Celeron G4900 Processor	
	Memory	Two 260-pin SODIMM up to 32GB	Dual Channel DDR4 2400/2666MHz
	Chipset	Intel® Q370/C246/H310 Chipset	
	BIOS	AMI SPI 128Mbit	
	Controller	Intel® UHD Graphics 630 (only Pentium G5400, Celeron G4900 support 610)	
GRAPHICS	Feature	OpenGL 4.4, DirectX 12, OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: AVC/H.264, MPEG2, JPEG, HEVC/H265, VP8, VP9	
	Display	1 x LVDS 1 x VGA 2 x DP++	LVDS: resolution up to 1920x1200 @ 60Hz VGA: resolution up to 1920x1200 @ 60Hz DP: resolution up to 4096x2304 @ 60Hz
	Triple Displays	LVDS + VGA + DP++	
	Interface	Q370/C246: 1 x PCIe x16 (Gen 3) 1 x Full-size Mini PCIe (& mSATA)	H310: 1 x PCIe x16 (Gen 3) 1 x mSATA
AUDIO	Audio Codec	Realtek ALC888S-VD2-GR	
ETHERNET	Controller	Q370: 1 x Intel® I219LM PHY, 1 x Intel® I211AT PCIe (10/100/1000Mbps) H310: 1 x Intel® I219V PHY, 1 x Intel® I211AT PCIe (10/100/1000Mbps)	
REAR I/O	Ethernet	2 x GbE (RJ-45)	
	USB	Q370/C246: 2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 4 x USB 2.0	H310: 4 x USB 3.1 Gen1 4 x USB 2.0
	Display	1 x VGA 2 x DP++	
	Serial	1 x RS-232 (DB-9)	
	Audio	1 x Line-out	1 x Mic-in
	Serial	1 x RS-232 (DB-9)(RS-232 w/ power)(2.0mm pitch)	
	Display	1 x LVDS LCD Panel Connector 1 x LCD/Inverter Power	
INTERNAL I/O	Audio	1 x S/PDIF	
	SATA	3 x SATA 3.0 (up to 6Gb/s)	RAID 0/1/5
	DIO	1 x 8-bit DIO	
	LPC	1 x LPC	
	SMBus	1 x SMBus	
	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
	TPM	DTPM 2.0 (optional)	
SECURITY	Type	ATX	
POWER	Connector	4-pin ATX 12V power	24-pin ATX power
	RTC Battery	CR2032 Coin Cell	
	Consumption	TBD	
	Microsoft/Linux	Windows 10 IoT Enterprise 64-bit	Linux: Ubuntu 18.04
OS SUPPORT ENVIRONMENT	Temperature	Operating: 0 to 60°C	Storage: -40 to 85°C
	Humidity	Operating: 5 to 90% RH	Storage: 5 to 90% RH
	MTBF	TBD	
	Dimensions	Mini-ITX Form Factor	
MECHANICAL	Height	PCB: 1.6mm	Top Side: 20mm, Bottom Side: 3mm
	CERTIFICATIONS	CE, FCC Class B, RoHS	

Packing List

• 1 CS100 motherboard	
• 1 COM port cable (Length: 250mm, 1 x COM ports)	TBD
• 1 Serial ATA data with power cable (Length: 300mm)	TBD
• 1 DVD	
• 1 Heat sink (Height: 25mm)	TBD

Optional Items

• USB port cable (Length: 200mm)	TBD
• COM port cable (Length: 250mm, 1 x COM ports)	TBD
• Serial ATA data with power cable (Length: 300mm)	TBD
• Power adapter (100W, 12V, Level 6)	TBD
• Power adapter (120W, 19V)	TBD
• I/O shield	TBD
• DT122 Chassis	TBD
• Intel® Pro 6000p SSD	TBD