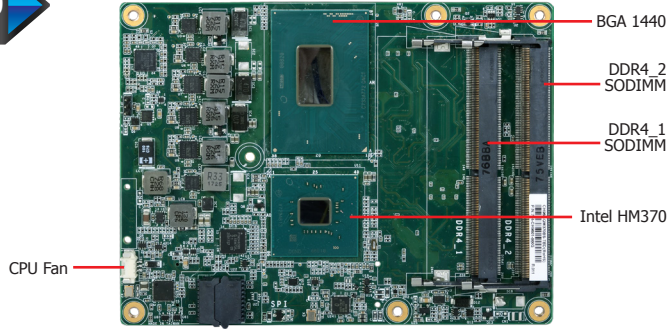


# CH960-HM370

HM370



## Features

- Dual channel DDR4 2666MHz SODIMM up to 32GB
- Four display ports: VGA\*/DDI + LVDS\*/eDP + 2 DDI Supports three independent displays
- eDP resolution supports up to 4096x2304 @ 60Hz
- Multiple expansion: 1 PCIe x16, 8 PCIe x1
- Rich I/O: 1 Intel GbE, 4 USB 3.1, 8 USB 2.0

\* Populated by default

3 Displays

SATA 3.0

USB 3.1

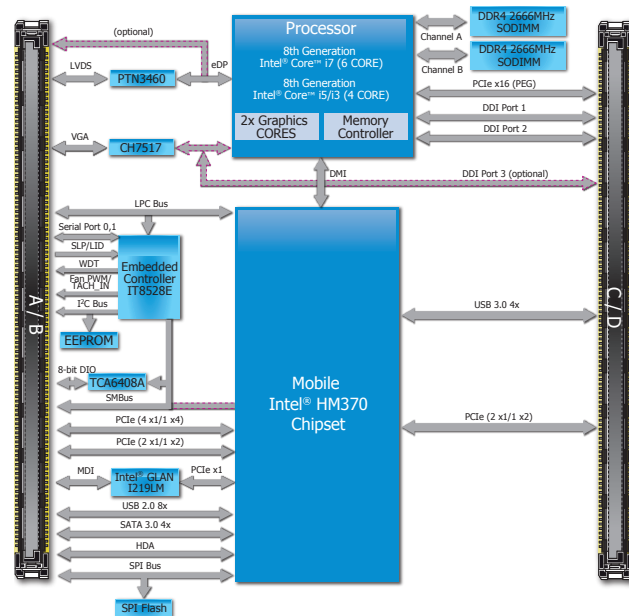
85°C  
-40°C  
Wide Temperature

**R2.1  
Type6**

## Mechanical Drawing

Coming Soon

## Block Diagram



PCIe L0~3			PCIe L4~5		PCIe L6~7	
x4			x4			
x2			x2			
x1	x1	x1	x1	x1	x1	x1

\* 8 x PCIe x1 or 2 x PCIe x4 or 4 x PCIe x2

## Specifications

<b>SYSTEM</b>	<b>Processor</b>	8th Generation Intel® Core™ Processors, BGA 1440 Intel® Core™ i5-8400H Processor, Quad Core, 8M Cache, 2.5GHz (4.2GHz), 45W	
	<b>Chipset</b>	Intel® HM370 Chipset	
	<b>Memory</b>	Two 260-pin SODIMM up to 32GB	Dual Channel DDR4 2666MHz
	<b>BIOS</b>	Insyde SPI 256Mbit	
<b>GRAPHICS</b>	<b>Controller</b>	Intel® HD Graphics	
	<b>Feature</b>	OpenGL up to 4.5, DirectX 11, OpenCL 2.1 HW Decode: HEVC/H.265, H.264, M/JPEG, MPEG2, VC1/WMV9, VP8 (8-bit), VP9 (10-bit) HW Encode: HEVC/H.265, M/JPEG, MPEG2, VP8	
	<b>Display</b>	1 x VGA/DDI (DDI available upon request) 1 x LVDS/eDP (eDP available upon request) 2 x DDI (HDMI/DVI/DP++)	VGA: resolution up to 1920x1200 @ 60Hz LVDS: dual channel 24-bit, resolution up to 1920x1200 @ 60Hz HDMI: resolution up to 4096x2160 @ 30 24bpp DVI: resolution up to 1920x1200 @ 60Hz DP++/eDP: resolution up to 4096x2304 @ 60Hz
	<b>Triple Displays</b>	VGA + LVDS + DDI or VGA + DDI 1 + DDI 2 eDP + 2 DDI (available upon request)	
<b>EXPANSION</b>	<b>Interface</b>	1 x PCIe x16 or 2 x PCIe x8 (Gen 3) 8 x PCIe x1 or 2 x PCIe x4 or 4 x PCIe x2 (Gen 3) 1 x LPC 1 x I <sup>2</sup> C 1 x SMBus 2 x UART (TX/RX)	
	<b>Interface</b>	HD Audio	
<b>AUDIO</b>	<b>Interface</b>	HD Audio	
<b>ETHERNET</b>	<b>Controller</b>	1 x Intel® I219LM PCIe (10/100/1000Mbps)	
<b>I/O</b>	<b>USB</b>	4 x USB 3.1 8 x USB 2.0	
	<b>SATA</b>	4 x SATA 3.0 (up to 6Gb/s)	
	<b>DIO</b>	1 x 8-bit DIO (Default 4 inputs and 4 outputs)	
	<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds
<b>POWER</b>	<b>Type</b>	12V, 5VSB, VCC_RTC (ATX mode)	12V, VCC_RTC (AT mode)
	<b>Consumption</b>	TBD	
<b>OS SUPPORT</b>		Windows: Windows 10 IoT Enterprise 64-bit	LINUX: Yocto Project v2.2
<b>ENVIRONMENT</b>	<b>Temperature</b>	Operating: 0 to 60°C -40 to 85°C (with heat spreader)	Storage: -40 to 85°C
	<b>Humidity</b>	Operating: 5 to 90% RH	Storage: 5 to 90% RH
	<b>MTBF</b>	TBD	
	<b>MECHANICAL</b>	<b>Dimensions</b>	COM Express® Basic 95mm (3.74") x 125mm (4.9")
	<b>Compliance</b>	PICMG COM Express® R2.1, Type 6	

## Ordering Information

Model Name	P/N	Processor	Memory	VGA/DDI	LVDS/eDP	GbE	USB 3.0	USB 2.0	Power	Thermal	Temp.
CH960-HM370BS-8400H	770-CH9601-400G	i5-8400H	2 SODIMM	VGA	LVDS	1	4	8	ATX/AT	Cooler	0 to 60°C

## Packing List

• 1 CH960-HM370 board	
• 1 DVD	
• 1 Cooler (Height: 36.58mm)	TBD

## Optional Items

• COM332-B carrier board kit	TBD
• Heat spreader (Height: 11mm)	TBD