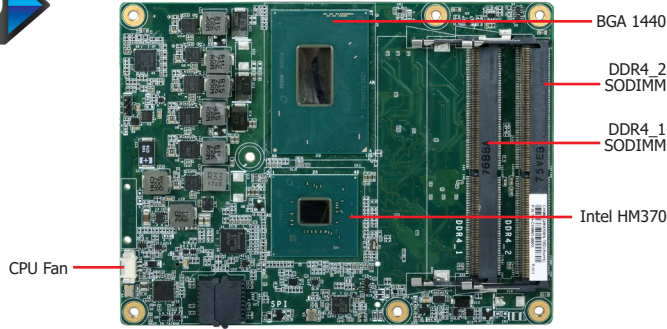


CH960-HM370

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

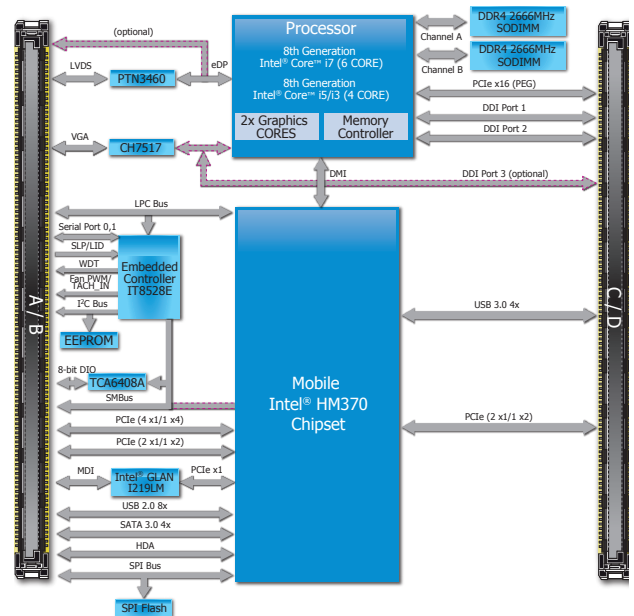
* Populated by default



Mechanical Drawing

Coming Soon

Block Diagram



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

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

Specifications

SYSTEM	Processor	8th Generation Intel® Core™ Processors, BGA 1440 Intel® Core™ i5-8400H Processor, 4 Cores, 8M Cache, 2.5GHz (4.2GHz), 45W Intel® Core™ i3-8100H Processor, 4 Cores, 6M Cache, 3.0GHz, 45W	
	Chipset	Intel® HM370 Chipset	
	Memory	Two 260-pin SODIMM up to 32GB	Dual Channel DDR4 2666MHz
	BIOS	AMI SPI 128Mbit	
GRAPHICS	Controller	Intel® HD Graphics	
	Feature	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	
	Display	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
	Triple Displays	VGA + LVDS + DDI or VGA + DDI 1 + DDI 2	eDP + 2 DDI (available upon request)
EXPANSION	Interface	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 ² C 1 x SMBus 2 x UART (TX/RX)	
AUDIO	Interface	HD Audio	
ETHERNET	Controller	1 x Intel® I219LM PCIe (10/100/1000Mbps)	
I/O	USB	4 x USB 3.1 8 x USB 2.0	
	SATA	4 x SATA 3.0 (up to 6Gb/s)	
	DIO	1 x 8-bit DIO (Default 4 inputs and 4 outputs)	
	WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds
POWER	Type	12V, 5VSB, VCC_RTC (ATX mode)	12V, VCC_RTC (AT mode)
	Consumption	Typical: 12V @ 0.85A (13.07Watt) Max.: 12V @ 5.75A (74.084Watt)	
OS SUPPORT		Windows: Windows 10 IoT Enterprise 64-bit Linux: Ubuntu 18.04	
ENVIRONMENT	Temperature	Operating: 0 to 60°C -40 to 85°C	Storage: -40 to 85°C
	Humidity	Operating: 5 to 90% RH	Storage: 5 to 90% RH
	MTBF	1,360,171 hrs @ 25°C; 892,642 hrs @ 45°C; 624,277 hrs @ 60°C excluding accessories Calculation Model: Telcordia Issue 4 Environment: GB, GC – Ground Benign, Controlled	
MECHANICAL	Dimensions	COM Express® Basic	95mm (3.74") x 125mm (4.9")
	Compliance	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
CH960-HM370BS-8100H	770-CH9601-600G	i3-8100H	2 SODIMM	VGA	LVDS	1	4	8	ATX/AT	Cooler	0 to 60°C

Packing List

• 1 CH960-HM370 board	
• 1 Cooler (Height: 36.58mm)	Wide Temp: A71-111100-010G Standard: A71-111100-000G

Optional Items

• COM332-B carrier board kit	770-CM3321-000G
• Heat spreader (Height: 11mm)	A71-808316-000G