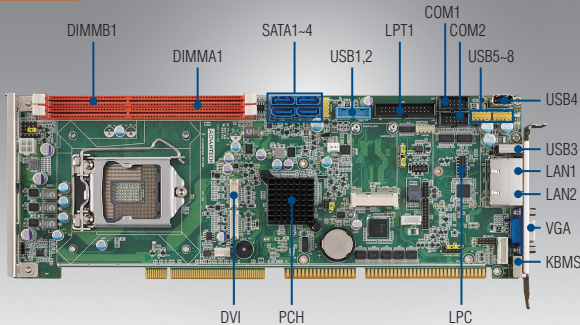


# PCA-6028

LGA1150 Intel® Core™ i7/i5/i3/Pentium SBC with VGA/DVI/Dual GbE LAN

**NEW**



## Features

- Supports Intel® Core™ i7/i5/i3/Pentium LGA1150 processors with H81
- Dual Channel (Non-ECC) DDR3 1333/1600 up to 16 GB
- Supports USB 3.0, SATA3.0
- Dual display with VGA and DVID-D (optional)
- Supports Advantech LPC modules.
- Supports SUSIAccess and Embedded Software APIs

### Software APIs:



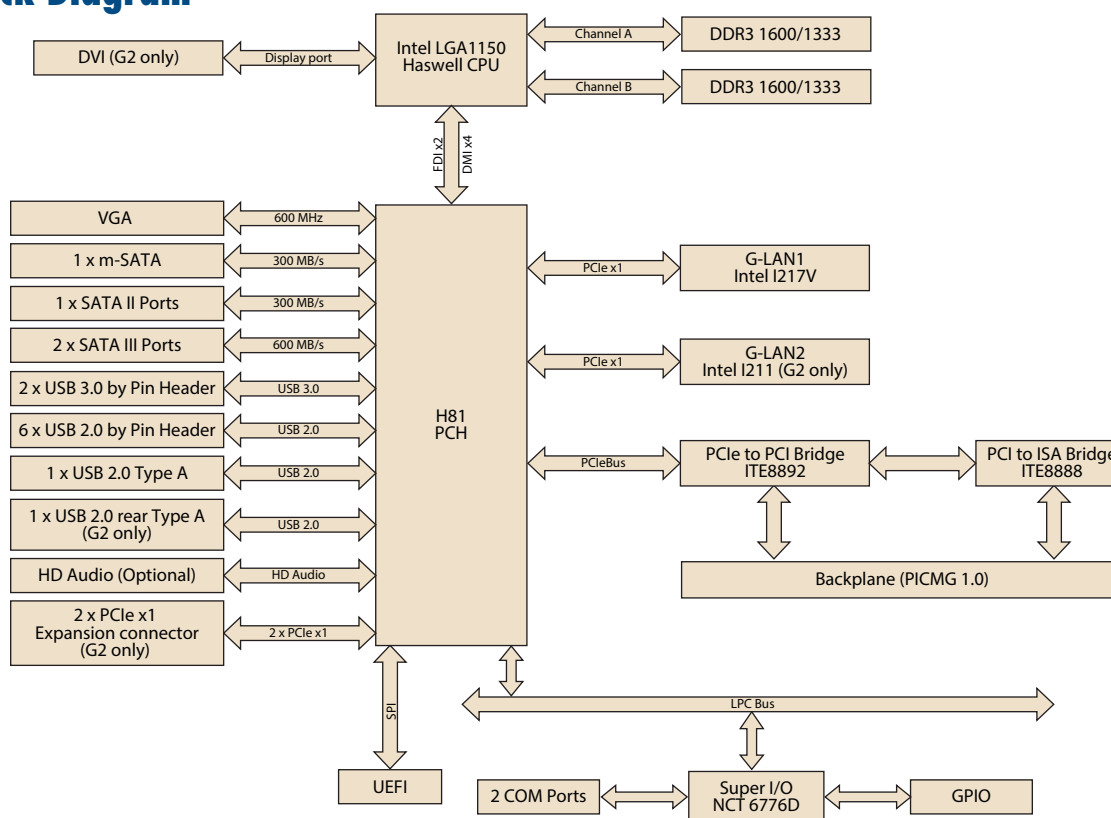
### Utilities:



## Specifications

Processor System	CPU	i7-4770S	i7-4770TE	i5-4570S	i5-4570TE	i3-4330	i3-4330TE	
	Base Frequency	3.1GHz	2.3GHz	2.9GHz	2.7GHz	3.5GHz	2.4GHz	
	L3 Cache	8MB	8M	6MB	4MB	3MB	3MB	
	SKU/Chipset	Intel H81						
	BIOS	AMI 128Mbit SPI Flash						
Bus	ISA	HISA (ISA High Driver)						
	PCI	32 bit/ 33 MHz PCI						
Memory	Technology	Dual channel (Non-ECC) DDR3 1333/1600						
	Max. Cap.	16 GB (8 GB per DIMM)						
	Socket	DDR3 240-pin DIMM x 2						
Graphics	Controller	Chipset integrated Intel HD Graphics						
	VRAM	Shared system memory is subject to OS						
	CRT	Supports resolution up to 2048 x 1536 pixel at 60Hz						
	DVI-D	Supports resolution up to 1920 x 1200 pixel at 60Hz (G2 only)						
Ethernet	Interface	10/100/1000 Mbps						
	Controller	LAN 1: Intel I217V LAN 2: Intel I211 (Only in G2 Sku)						
	Connector with LED	RJ45 x 1 (VG sku); RJ45 x 2(G2 sku)						
SATA	Channel	SATA 3.0 x 2 (600 MB/sec), SATA2.0 x 2 (300MB/sec)						
Rear I/O	USB 2.0	1 (Only in G2 sku)						
	Ethernet	1 (VG sku); 2 (G2 sku)						
	VGA	1						
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)						
	Internal Connector	USB	Up to 8x USB2.0 (6x Pin header, 1x Type A, 1x Rear in G2 sku only) 2x USB3.0 (Pin header)					
SATA		4(1x SATA2.0, 2x SATA3.0, 1x mSATA)						
DVI-D		1 (Pin header)						
COM		2						
Parallel		1						
IrDA		1						
GPIO		8-bit						
Watchdog Timer	Output	System reset						
	Interval	Programmable 1-255 sec						
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)						
Power Requirement	Test Environment	Core i5-4670S CPU@3.10GHz+DDR3-1066*2+SATA HDD*1						
	Voltage	+12V	+5V	+3.3V	+5Vsb	-12V	-5V	
	Current	0.32A	1.92A	0A	0.06A	0A	0A	
Environment	Temperature/Humidity	Operating			Non-operating			
		0 ~ 60° C(32~140° F); Depends on CPU frequency and cooler solution			-40 ~ 85° C and 60° C @ 95% RH Non-Condensing			
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")						

## Block Diagram



## Ordering Information

Part Number	LAN	VGA	DVI-D	COM	SATA	USB	m-SATA
PCA-6028VG-00A1E	1	Yes	-	2	3 (1 x 2.0 + 2 x 3.0)	9 (2 x 3.0 + 7 x 2.0)	1
PCA-6028G2-00A1E	2	Yes	1*	2	3 (1 x 2.0 + 2 x 3.0)	10 (2 x 3.0 + 8 x 2.0)	1

\*Note: Output DVI-D signal only (Required DVI-D cable: 1700021831-01)

## Optional Accessories

Part Number	Description
1960047831N001	PCA-6028 optimized CPU Cooler (2U)
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module(Trust Platform management)
1700020277-01	2 ports USB 3.0 cable W/ BKT(30cm)
1700021831-01	DP to DVI-D cable w/ BKT

## Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1703150102	Serial ATA HDD power cable	x2
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006602800	Startup manual	x1
2066602800	Utility CD	x1

## Bracket View



PCA-6028G2-00A1E



PCA-6028VG-00A1E