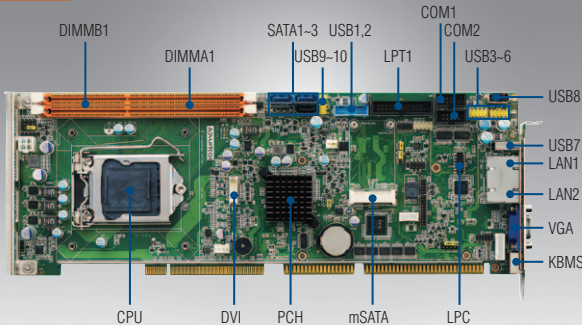


# PCA-6028

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 DVI-D (optional)
- Supports Advantech LPC modules.
- Supports SUSIAccess and Embedded Software APIs

### Software APIs:



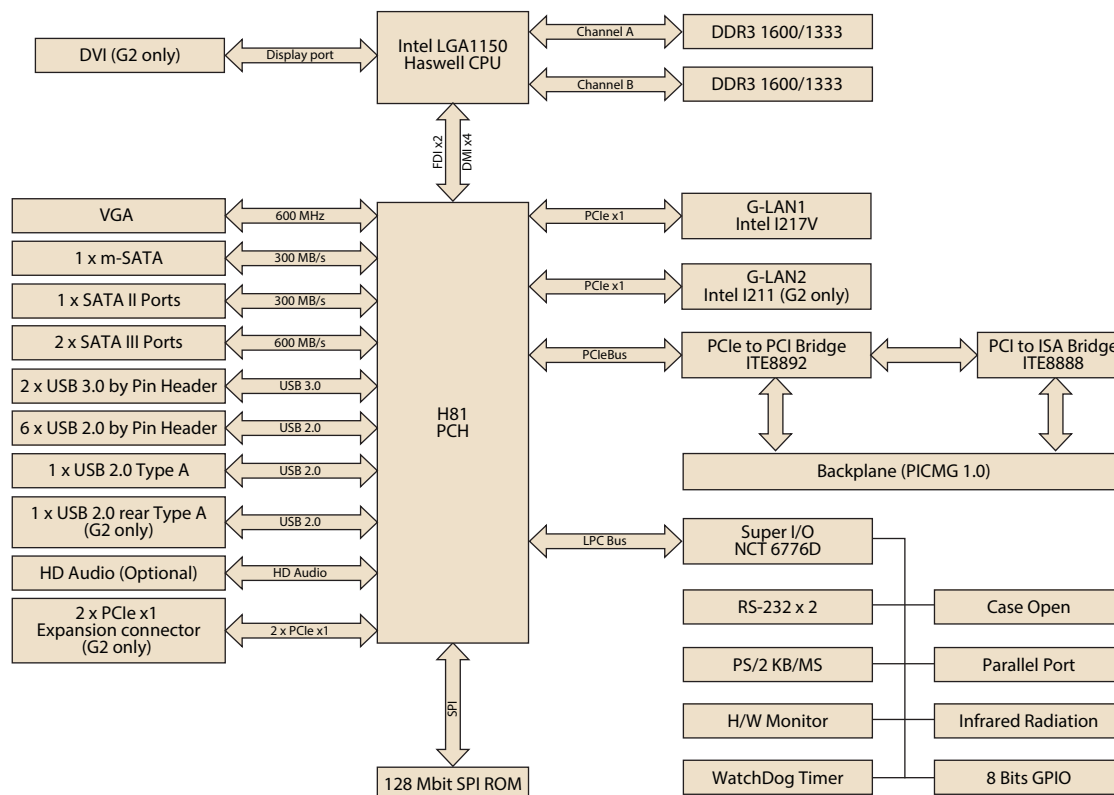
### Utilities:



## Specifications

Processor System		Haswell refresh CPUs are supported from BIOS V2.xx							
CPU		i7-4790S	i5-4590S	i5-4590T	i3-4360	i3-4350T	i3-4340TE		
Base Frequency		3.2GHz	3.0GHz	2.0GHz	3.7GHz	3.1GHz	2.6GHz		
L3 Cache		8MB	6MB	6MB	4MB	4MB	4MB		
Processor System		Haswell CPUs are supported by both BIOS V1.xx and V2.xx							
CPU		i7-4770S	i7-4770TE	i5-4570S	i5-4570TE	i3-4330	i3-4330TE	G3420	G3320TE
Base Frequency		3.1GHz	2.3GHz	2.9GHz	2.7GHz	3.5GHz	2.4GHz	3.2GHz	2.3GHz
L3 Cache		8MB	8M	6MB	4MB	4MB	3MB	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 i7-4790S@3.20GHz; 8GB DDR3 1600 2Rx8*2; SATA HDD*1							
Voltage		+12V +5V		+3.3V +5Vsb		-12V -5V			
Current		4.94A 1.83A		0A 0.01A		0A 0A			
Environment		Operating 0 ~ 60° C(32~140° F); Depends on CPU frequency and cooler solution Temperature/Humidity Operating humidity: 40° C @ 85% RH Non-Condensing							
Non-operating		-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-COM485-00A1E	4 x RS-244/485 module
PCA-COM232-00A1E	4 x RS-232 module
PCA-AUDIO-HDA1E	Extension module for 7.1 Channel High Definition Audio
PCA-TPM-00A1E	Trusted platform module compliant with TCG 1.2
1700020277-01	2-port 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
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461-11	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006602802	Startup manual	x1
2066602801	Utility CD	x1

## Bracket View



PCA-6028G2-00A1E



PCA-6028VG-00A1E



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