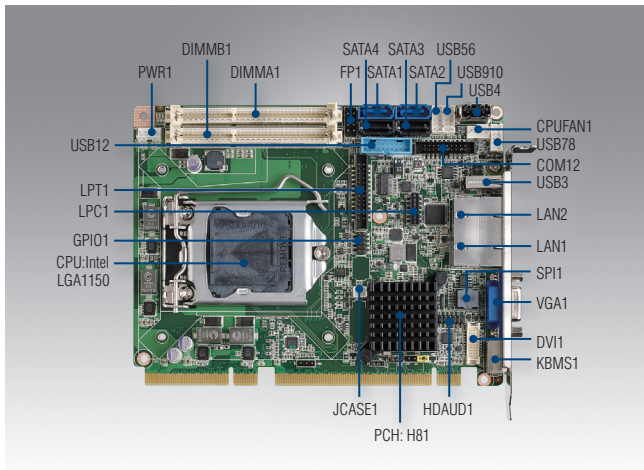


PCE-3028

LGA 1150 4th Generation Intel® Core™ i7/i5/i3 Half-size SHB with PCIe/VGA/DVI/Dual GbE LAN



Features

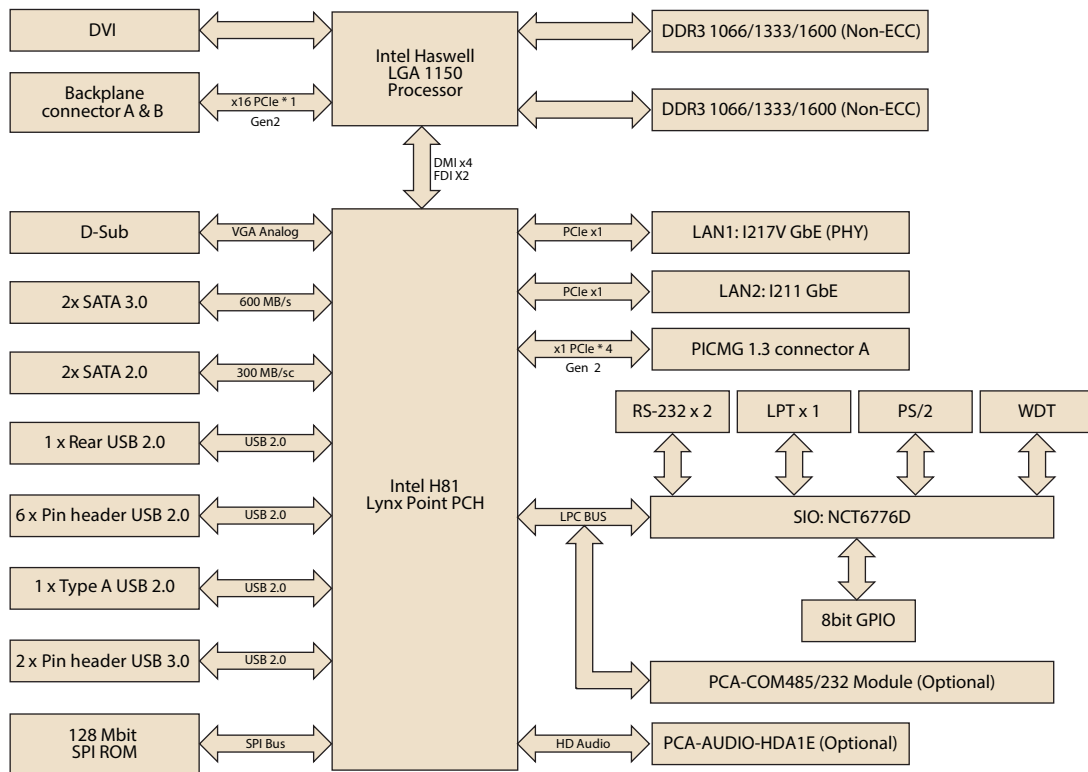
- Complies with PICMG 1.3
- Supports Intel® Core™ i7/i5/i3 LGA1150 processors with H81
- Dual Channel (Non-ECC) DDR3 1066/1333/1600 up to 16 GB
- Supports USB 3.0, SATA3.0
- Supports CRT and DVI-D (optional) display
- Support dual 10/100/1000 Mbps Ethernet
- Supports Advantech TPM module (LPC I/O)
- Supports SUSIAccess and embedded software APIs



Specifications

Processor System	CPU	i7-	i7-	i7-	i7-	i5-	i5-	i5-	i5-	i3-	i3-	i3-	i3-	G3420	G3320TE	G1820	G1820TE
	Base Frequency	3.2GHz	2.7GHz	3.1GHz	2.3GHz	3.0GHz	2.0GHz	2.9GHz	2.7GHz	3.7GHz	3.1GHz	3.5GHz	2.4GHz	3.2 GHz	2.3 GHz	2.7 GHz	2.2 GHz
	L3 Cache	8MB	8MB	8MB	8MB	6MB	6MB	6MB	4MB	4MB	4MB	4MB	4MB	3MB	3MB	2MB	2MB
	SKU/Chipset	Intel H81															
Bus	BIOS	AMI 128Mbit SPI Flash															
	PCI-Express	One x16 plus four x1 to backplane															
Memory	Technology	Dual channel (Non-ECC) DDR3 1066/1333/1600															
	Max. Cap.	16 GB (8 GB per DIMM)															
	Socket	DDR3 204-pin SO-DIMM x2															
Graphics	Controller	Chipset integrated Intel GT2 4600 or GT1 HD graphics (Depends on CPU support)															
	VRAM	Shared system memory is subject to OS															
	CRT	Supports resolution up to 1920 x 1200 pixel at 60Hz															
	DVI-D	Supports resolution up to 1920 x 1200 pixel at 60Hz															
Ethernet	Dual Independent Display	VGA+DVI-D															
	Interface	10/100/1000 Mbps															
	Controller	LAN 1: Intel I217V LAN 2: Intel I211AT															
SATA	Connector with LED	RJ-45 x 2															
	Max. Data Transfer Rate	SATA 3.0 x 2 (600 MB/sec), SATA 2.0 x 2 (300 MB/sec)															
Rear I/O	USB 2.0	1															
	Ethernet	2															
	VGA	1															
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)															
Internal Connector	USB	Seven USB 2.0 (Pin-header x 6 + USB Type A x 1); Two USB 3.0 (Pin header)															
	SATA	4															
	DVI-D	1															
	COM	2															
	Parallel	1															
Watchdog Timer	GPIO	8-bit															
	Output Interval	System reset 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	Intel Core i7-4770S (3.1GHz), DDR3 1600 8GB*2															
	Voltage	12V	5V	3.3V	5VSB	-5V	-12V										
	Current	7.26	1.06	0.42	0	0	0										
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 (L x H)	167.64 x 126.39 mm (6.6" x 4.98")															

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DVI-D	COM	SATA III	SATA II	USB 2.0	USB 3.0	S/W Raid	AMT
PCE-3028G2-00A1E	H81	Non-ECC	PCE-3XXX	2	1	1	RS-232 x 2 onboard Optional RS-422/485 x 4 or RS-232 x 4 via module	2	2	8	2	No	No

Note: DVI-D cable is optional

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x1
1703150102	Serial ATA HDD power cable	x1
1700008762	2-port COM cable	x1
1700002223	1-port LPT cable	x1
1700060202	Keyboard and mouse Y-cable	x1
1700028292-01	2 ports USB 3.0 cable W/BKT	x1
1700014398-11	4-port USB cable kit	x1
1703040100	Power Converter	x1
9689000002	Jumper package	x1
2190000902	Warranty Card	x1
2006302800	Startup manual	x1
2066302800	Utility CD	x1

Optional Accessories

Part Number	Description
PCA-COM485-00A1E	4 x RS-244/485 module
PCA-COM232-00A1E	4 x RS-232 module
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module (Trust Platform management)
1700021831-01	DVI-DVI cable with bracket
1960053065N001	CPU Cooler for 1U Chassis and 55W TDP
1960053207N001	CPU Cooler for 1.5U Chassis and 65W TDP
1960047831N001/ 1960077101N001	CPU Cooler for 2U Chassis and 95W TDP

I/O View

