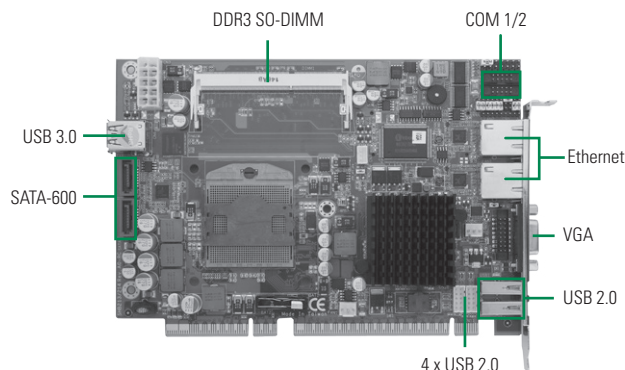


SHB213

PICMG 1.3 Half-size CPU Card with Socket G2 2nd Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® HM65, VGA, SATA3, USB 3.0 and Dual LANs

Features

- Socket G2 (rPGA 988B) 2nd gen Intel® Core™ i7/i5/i3 and Celeron® processor (Sandy Bridge)
- Intel® HM65 chipset (optional Intel® QM67 chipset)
- 2 DDR3-1066/1333 SO-DIMM, up to 8GB
- Supports Intel® HD graphics



Core System

CPU	Socket G2 (rPGA 988B) 2nd generation Intel® Core™ i7/i5/i3 and Celeron® processor (Sandy Bridge)
System Memory	2 x 204-pin DDR3-1066/1333 SO-DIMM, up to 8GB
Chipset	Intel® HM65 (Intel® QM67 as option)
BIOS	AMI UEFI BIOS
SSD	1 x CFast™
Watchdog Timer	225 levels, 1-255 sec.
Expansion Interface	1 x PCIe x16 1 x PCIe x4 or 4 x PCIe x1
Battery Lithium	3v/220 mAh
Power Requirements	Intel® Core™ i7-2710QE @ 2.1 GHz, 8GB DDR3 (HM 65) -12V @ 1.9A, +5VSB @ 0.1A, +12V @ 1.8A, +3.3V @ 2.5A
Size	185 x 126mm
Board Thickness	1.6 mm
Temperature	0°C ~ +60°C (32°F ~ 140°F), operation
Operation Humidity	10% ~ 95% relative humidity, on-condensing

I/O

MIO	1 x RS-232/422/485 (COM 1) 1 x RS-232 (COM 2)
SATA	2 x SATA-600 (straight, 180, blue) Optional RAID 0/1 (only for Intel® QM67)
Hardware Monitoring	Detect CPU/System temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000 Mbps support WOL, RPL/PXE boot ROM with Realtek RTL8111E.
Audio	N/A
USB	2 x USB 3.0 (right angle, 90) 6 x USB 2.0 (4 x internal, 2 x external)
SMBus	System Management Bus for advanced monitoring/control

Display

Chipset	Intel® HD graphics
Memory Size	Max. up 352 MB frame buffer dedicated memory
Display Interface	1 x VGA

Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
59384500200E	COM x 2 w/bracket, P=2.0 mm, L=250 mm	1
593826A0000E	SATA signal cable 500 mm	1

Ordering Information

Standard	
SHB213VGG-HM65 (P/N: E38C213101)	PICMG 1.3 half-size CPU card with Socket G2, Intel® HM65, VGA, SATA3, USB 3.0, 2 GbE LANs
SHB213VGG-QM67 (P/N: E38C213100)	PICMG 1.3 half-size CPU card with Socket G2, Intel® QM67, VGA, SATA3, USB 3.0, 2 GbE LANs
Optional	
59382631000E	2 x USB 2.0 wafer cable with bracket, L=180 mm
5078C11200E	CPU cooler PGA 989 JACDD01C