SHB213
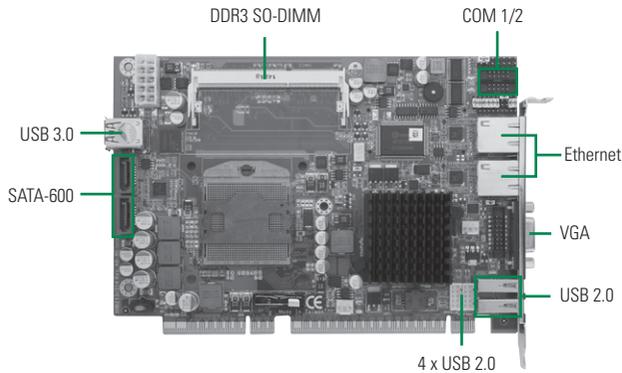
Socket G2 Intel® Core™ i7/ i5/ i3/ Celeron®
PICMG 1.3 Half-size CPU Card with Intel®
HM65 Chipset, VGA, SATA3, USB 3.0 and
Dual LANs

DDR3 SO-DIMM COM 1/2
USB 3.0
SATA-600
Ethernet
VGA
USB 2.0
4 x USB 2.0

DDR3 CFast™ USB 3.0 Full Solid Cap Design

Features

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

System

CPU	Socket G2 (rPGA 988B) 2nd Generation Intel® Core™ i7/ i5/ i3/ Celeron® processors (Sandy Bridge)
System Memory	2 x 204-pin DDR3 1066/1333 SO-DIMM max. up to 8 GB
Chipset	Intel® HM65 chipset (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, 8 GB 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° ~ +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 10/100/1000Mbps 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, L=250 mm	1
593826A0000E	SATA signal cable 500 mm	1

Ordering Information

Standard

SHB213VGG-HM65 (P/N: E38C213101)	Socket G2 PICMG 1.3 half-size CPU card with HM65, VGA, SATA3, USB 3.0, 2 10/100/1000Mbps Ethernet

Optional

59382631000E	2 x USB 2.0 wafer cable with bracket, L=180 mm
5078C111200E	CPU cooler PGA 989 JACDD01C
SHB213VGG-QM67 (P/N: E38C213100)	Socket G2 PICMG 1.3 half-size CPU card with QM67, VGA, SATA3, USB 3.0, 2 10/100/1000Mbps Ethernet

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