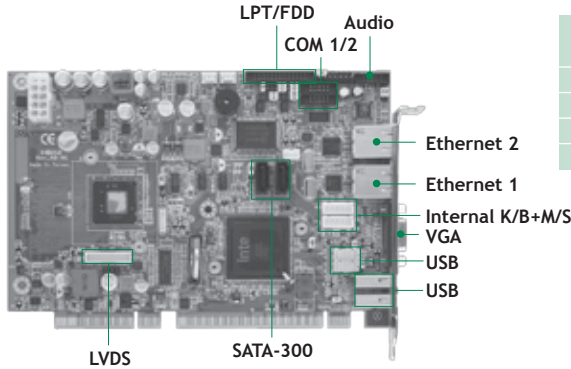


SHB212

Intel® Atom™ N455/ D425/ D525 PICMG 1.3 Half-size CPU Card with Intel® ICH8M Chipset, VGA, LVDS, Dual LANs and Audio



Atom™
D425/ D525/ N455
2 G.E.
1 DDR3
6 USB 2.0
CompactFlash™



Features

- Intel® Atom™ processor N455 (1.66 GHz)/ D425/ D525 (1.8 GHz)
- Intel® ICH8M chipset
- 1 DDR3 SO-DIMM support up to 4GB memory capacity

System

CPU	Intel® Atom™ processor D425/ D525 1.8 GHz & N455 1.66 GHz
System Memory	1 x 204-pin SO-DIMM supports DDR3-667 (N455)/ 800(D425/ D525) max. up to 4GB
Chipset	Intel® ICH8M
BIOS	AMI
SSD	1 x CompactFlash™
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	4 x PCIe lanes support for 1 x PCIe x4 or 4 PCIe x1 I/O device Note: There is no PCIe x16 signal
Battery	Lithium 3V/196mAH
Power Requirements	Intel® Atom™ N455 @ 1.66 GHz, 1GB DDR3 +5V_SBY @ 110mA, +3.3V @ 150mA, +12V @ 380mA Intel® Atom™ D425 @ 1.86 GHz, 1GB DDR3 +5V_SBY @ 112mA, +3.3V @ 165mA, +12V @ 390mA Intel® Atom™ D525 @ 1.86 GHz, 1GB DDR3 +5V_SBY @ 115mA, +3.3V @ 180mA, +12V @ 410mA
Size	185 x 126 mm
Board Thickness	1.6 mm
Temperature	0° C ~ +60° C (32° F ~ 140° F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	1x IDE 1 x FDD/LPT(default); with SPP/EPP/ECP supported 1 x PS/2 keyboard 1 x PS/2 mouse 1 x RS-232/422/485 (COM 1) 1 x RS-232 (COM 2)
SATA	2 x SATA-300
Hardware Monitoring	Detect CPU/system temperature, voltage and support Smart Fan control
Ethernet	1st port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82567V 2nd port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82574L
Audio	HD Codec audio as MIC-in/Line-in/Line-out/speaker-out with Realtek ALC662
USB	6 x USB 2.0
SMBus	N/A

Display

Chipset	Intel® GMA 3150 graphics Core
Memory Size	Intel® DVM 4.0 compliant
Output Interface	1x VGA 1x LVDS; 18-bit single channel

Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
5938450000E	COM + Print cable w/ bracket	1
593826A0000E	SATA signal cable 500mm	1

Ordering Information

Standard	
SHB212VGGA-N455 (P/N: E38C212100)	Intel® Atom™ N455 PICMG 1.3 Half-size CPU card with VGA, 2 10/100/1000Mbps Ethernet (Fanless) and audio
SHB212VGGA-D425 (P/N: E38C212101)	Intel® Atom™ D425 PICMG 1.3 Half-size CPU card with VGA, 2 10/100/1000Mbps Ethernet and audio
SHB212VGGA-D525 (P/N: E38C212102)	Intel® Atom™ D525 PICMG 1.3 Half-size CPU card with VGA, 2 10/100/1000Mbps Ethernet and audio
Optional	
593836A0030E	4-pin power cable to SATA x 2 L=150mm
59382631000E	2 x USB port wafer cable with bracket L=180mm
59383600000E	Audio cable