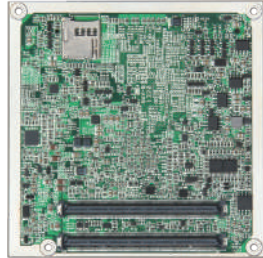


# PCOM-B632VG

Intel® Atom® Bay trail series SoC based on Type 6 COM-Express® module with DDR3L 1x SD-DIMM Socket



## FEATURES

- Intel® Atom® Bay trail E3800 series processors
- DDR3L SO-DIMM up to 4GB 1333 MT/s
- Multiple Displays VGA, eDP, DP, HDMI
- Support Industrial temperature -40 °C to 85 °C
- Support low power consumption(5 to 10W), USB 3.0, SD Card



PCOM-B632VG, a type 6 compact COM Express® (95 x 95 mm) module which was based on Intel® Atom® Bay Trail E3800 series SoC. In this architecture, it could provide VGA, eDP and DP multiple displays, and expandability I/O interfaces, included 3x PCIe 2.0 x 1, 1x USB 3.0, 4x USB 2.0, 2x serial ports and 2x SATA II devices. With ultra low power consumption design(5 to 10W), wide-temp support, it could provide very energy saving solution to different market, such as retail, transportation and automation.

## General

General					
Product	PCOM-B632VG				
Form Factor	Type 6, Compact Form Factor COM-Express® ( 95 x 95 mm)				
Processor	Intel® Atom®				
	E3845	E3827	E3826	E3825	E3815
Core	4	2	2	2	1
Freq.	1.91 GHz	1.75 GHz	1.46 GHz	1.33 GHz	1.46 GHz
Turbo	N/A				
Cache	2MB	1MB	1MB	1MB	512KB
Processor Graphics	Intel® HD Graphics for Intel Atom® Processor Z3700 Series				
Graphics Base Frequency	542 MHz	542 MHz	533 MHz	533 MHz	400 MHz
Graphics Max Dynamic Frequency	792 MHz	792 MHz	667 MHz	533 MHz	400 MHz
HW Encoding	H.264 and MPEG2				
HW Decoding	H.264, MPEG2, MVC, VC-1, WMV9, JPEG/MKPEG, VP8				
HW Acceleration	Gen7LP, DirectX 11, OpenGL 3.2, OpenCL 1.2, OGL ES Haili/2.0/1.1				
Processor TDP	10W	8W	7W	6W	5W
BIOS	Phoenix BIOS				
ECC Memory Supported	No				
Memory	DDR3L SO-DIMM up to 4GB 1333 MT/s				

## I/O Interface

SATA	2x SATA II		
USB	1x USB 3.0 4x USB 2.0		
Ethernet	Intel® Ethernet Controller I210T		
Serial I/O	GPIO	8 GPIO	
	I <sup>2</sup> C	Baud Rate: 400KHz	
	SMBus	Baud Rate: 100KHz	
	UART	2 Serial Port (Tx/Rx)	
PEG	N/A		
PCI Express	3x PCIe 2.0 x 1 (Option 4x PCIe 2.0 x 1)		
Display	Default	Options	Resolution
	VGA	VGA	up to 2560x 1600 @ 60Hz
	DDI0	DP	up to 2560x 1600 @ 60Hz
	DDI1	HDMI	up to 1920x 1080 @ 60Hz
		eDP	up to 2560x 1600 @ 60Hz
Security	Intel®AES		

## MECHANICAL & ENVIRONMENT

Dimension	95 x 95 mm
Power DC IN	Normal : +12V Wide Range : +8VDC - +16VDC AT/ATX Mode
Storage Temperature	-40°C to 85°C
Operation Temperature	-40°C to 85°C
Certification	Contact us
MTBF	Over 120,000 hours at 40°C
Vibration	Contact us
OS	Windows 7, WES7/8, Embedded Compact7 Linux Fedora/Tizen/Yocto RTOS Windriver

## ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B632VG-E3845	AB1-3A36	Available
PCOM-B632VG-E3827	AB1-3A33	Available
PCOM-B632VG-E3826	AB1-3A34	Available
PCOM-B632VG-E3825	AB1-3A35	Available
PCOM-B632VG-E3815	AB1-3A40	Available
Accessory	Ordering P/N	Status
Heat Sink	B8308040	Available
Heat Spreader	B8307650	Available
PCOM-C605(Mini-iTX Carrier Board)	AB1-3998	Available
PCOM-C60B(ATX Carrier Board)	AB1-3G22Z	Contact us

## BLOCK DIAGRAM

# PCOM-B632VG

COM Express® Type 6  
Compact Module 95x95mm

AT / ATX Mode

12 VDC

-40° C ~ +85° C

