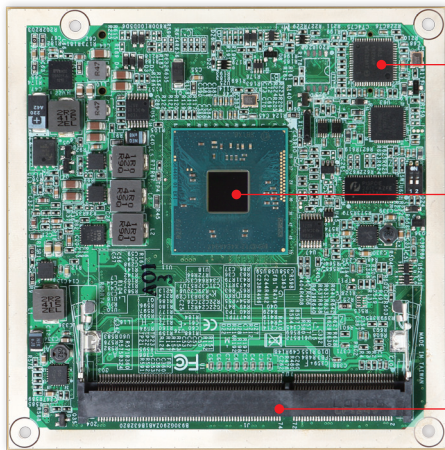


PCOM-B636VG

Intel® ATOM N3000 series processor based on Type VI Compact-COM Express2.0 module with DDR3L SDRAM on SO-DIMM slots, VGA, LVDS, DDI for HDMI/DP, Gigabit Ethernet, PCIE, SATA and USB

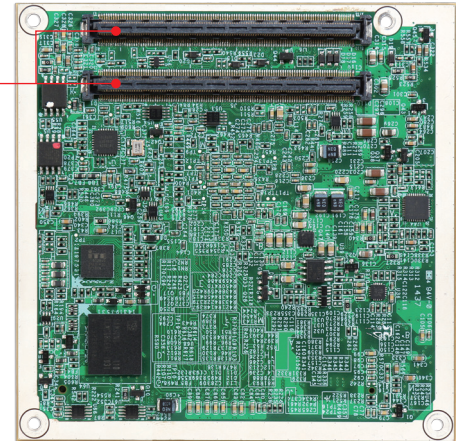


Intel I210IT

Board to Board connector

Intel Celeron N3000 Series

204pin DDR3L SO-DIMM socket



Portwell PCOM-B636VG COM Express® Type VI module with Intel ATOM N3000 series SoC. Implementation of applications used for national security and cyber warfare require high intelligence systems capable of operating in remote condition and under stringent conditions, more so than industrial computers.

FEATURES

- Intel® Pentium/Celeron Dual/Quad Core N3000 series processor
- Support DDR3L-1600/1333 SDRAM on SO-DIMM slot, up to 8GB
- Support VGA, LVDS and Display-port interface
- Support USB 2.0/ 3.0, SATA, 4 PCIE x1 or 1 PCIEx4
- Support eMMC 4.51 storage
- Support I2C/Smart Battery function

ORDERING GUIDE

TBD	PCOM-B636VG-N3700.TYPE VI. Intel Pentium N3700 Quad Core 1.6GHz. Compact Form Factor.COM Express Module/EC
TBD	PCOM-B636VG-N3150.TYPE VI. Intel Celeron N3150 Quad Core 1.6Hz. Compact Form Factor.COM Express Module/EC/LVDS
TBD	PCOM-B636VG-N3050.TYPE VI. Intel Celeron N3050 Dual Core 1.6GHz. Compact Form Factor.COM Express Module/EC/ LVDS
TBD	PCOM-B636VG-N3000.TYPE VI. Intel Celeron N3000 Dual Core 1.04GHz. Compact Form Factor.COM Express Module/EC/ LVDS

GENERAL

Form Factor	-Type 6, Compact Form Factor COM Express
Processor	- Intel® Pentium-N3700, 1.6GHz 2MB Cache 4 Core (6W) - Intel® Celeron-N3150, 1.6GHz 2MB Cache 4 Core (6W) - Intel® Celeron-N3050, 1.6GHz 2MB Cache 2 Core (6W) - Intel® Celeron-N3000, 1.04GHz 2MB Cache 2 Core (4W)
Chipset	- SoC
Memory	- Supports up to 8GB DDR3L 1333/1600 MT/s SDRAM on one 204-pin SO-DIMM socket.
BIOS	- AMI Aptio
Ethernet	- Intel® Ethernet Controller I210IT (NC Sideband Interface, Jumbo frames , 1000Base-T)
PCI Express	- PCI Express Gen2 (5.0GT/s)x 4 , x 2 , x 1
SATA	- 2 x SATA 6.0Gb/s
USB Port	- 8x USB 1.0/2.0(HS/FS), 4 x USB3.0(SS).
Watchdog Timer	- Programmable via S/W from 1 sec to 255 min
LPC	- LPC Interface (4-bit-wide bus operating at 4 times the clock speed, 33.3MHz)
Hardware Monitoring	- ITE 8528 ; CPU, Voltage , Temperature
Connector	- COM Express Connector x2
Audio	- Intel® High Definition Audio (2x channels delivering 192-KHz 32-bits, and 8x channels delivering 96-KHz 32-Bits)
Board Size	- 95x95mm
Environment	- Operation Temperature: 0° C ~ +60° C (-40° F~+185° F) - Relative Humidity: 5~95%

DISPLAY

Graphic	- Intel® Gen8 Graphics supports DX11.1, OpenGL 4.2 / OpenCL 1.2
Display	- eDP: Resolution up to 3840x2160 - VGA: Resolution up to 2560x1600 - LVDS: Resolution up to 1920x1200 - DP/HDMI: Resolution up to 3840x2160

