# HABEY

## Intel® Atom™ Small Form Factor, 6 COM Port, Dual NIC System with GMA 3650 GPU

# BIS-6636

The BIS-6636 is a compact fanless embedded PC developed around the most latest Intel® Atom™ N2800 and D2550 processors. The BIS-6636 Cedar Trail embedded system offers continual connectivity with a host of input and output options including six USB ports, up to six COM ports and two Gigabit Ethernet ports. Wireless connectivity is also a key factor, so this system is equipped with on-board SIM socket for 3G/4G connectivity or WiFi option via Mini-PCIe slot. With the help of the integrated PowerVR GPU, the BIS-6636 performs hardware encoding and decoding of HD Video in real time. Display outputs include one VGA port and one DVI-D port at up to 1920 x 1200 and an internal 18-bit LVDS at up to 1366 x 768 resolution. Externally accessible 2.5" SATA drive bay and optional mSATA support via an internal mini-PCIe slot. The system supports Windows 7 Embedded, Windows 7, and Embedded Linux OS like Timesys Fedora. The BIS-6636's fanless, embedded long life cycle support, rich I/O, easy access drive bay design makes it perfect for digital signage, building automation, NVR, point-of-sales, and other embedded and industrial applications. Unique from all previous generation Atoms, the Intel® Atom™ D2550 is equipped with a PowerVR SGX545 GPU clocked at 640MHz. The SGX545 is the next generation of GPU's following the iPad 2 GPU's (similar IP) from Imagination Technologies. The stunning integrated graphics improves graphics by 60% better than previous Atom processors and decodes a variety of video at full HD with formats (MP4, H.264, and WMV9) displaying riveting visual quality.

(intel) Intelligent Systems Alliance

Full HD 1080

# Intel® Atom™ Small Form Factor, 6 COM Port, Dual NIC System with GMA 3650 (PowerVR) GPU

**Features**:

- Highly efficient fanless proprietary thermal design
- Onboard Intel® Dual Core Atom™ N2800 or D2550 processor
- Embedded long life cycle support
- Supports HD video hardware encoding and decoding
- 2.5" Hard Drive external access (bottom plate access)
- Dual Gigabit Ethernet
- VGA + DVI-D secured video connection, dual independent display
- Mini-PCIe slot for TV Tuner, mSATA SSD support option
- SIM socket for WiFi, 3G/4G
- Two External COM Ports, expandable to Six COM Ports
- VESA mount ready for easy installation and mounting

## Specifications:

| BIS-6636 | |
|---|---|
| Processor | Onboard N2800/ D2500/ D2550 |
| Chipset | Intel NM 10 |
| System Memory | 1x 204-pin DDR3 SODIMM, Up to 4GB |
| Ethernet | 2x RJ45, Realtek RTL8111E |
| Storage | 2x SATA II HDD Bay |
| Expansion | 1x Mini PCIe, 1x SIM slot |
| Cooling System | Fanless |
| Power Supply | DC 12V adaptor |
| Graphic Controller | Intel integrated GMA3650 |
| Video Memory | Shared, up to 384MB |
| Display Interface | 1x VGA, 1x DVI-D |
| Serial Port | 1x RS-232 DB9 and 1x RS-232/422/485 DB9 |
| USB | 6x USB2.0 |
| PS/2 Port | 1x PS/2 KB/MS header |
| Digital I/O | 8bit GPIO header |
| Audio | HD Audio, Realtek ALC887, Line-out, MIC-in |
| Rear Panel | 1x VGA, 1x DVI-D, 2x DB9 COM, 2x RJ45, 4x USB, 2x Audio, 1x 12VDC |
| Front LED/Control | Power LED, HDD LED, Power Button, 2x USB |
| Watchdog Timer | Programmable timer system reset |
| Features and Options | Add-on option for additional 4x COM ports via DB9 |
| Enclosure Materials | Aluminum + Steel |
| Coating Processes | Aluminum Oxidation |
| Mounting Option | 100mm x 100mm VESA Mount Ready |
| Color | Black (default), custom color available on OEM order |
| Operating Temperature | 0 ~ 60° C (32 ~ 122° F) |
| Dimensions | 190x 190x 67mm (7.5"x 7.5"x 2.6" WxDxH) |
| Dimensions | 190mm × 190mm × 67mm (W×D×H) |

Rear IO Panel shown with optional 6 COM port configuration

Front IO Panel & Power Button