



System

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| Form Factor | 3.5" Disk-Size SBC |
| CPU | NXP Cortex™-A8 i.MX536 800MHz |
| System Memory | 1GB DDR3 on board |
| Data Memory | eMMC (IB112T:8GB; IB112S: 16GB) on board SD socket (up to 32GB), Micro SD socket (up to 32GB) |
| Display | HDMI (IB112F/IB112S/IB112T) 18/24 bit single channel LVDS (up to 1366x768), VGA (IB112F) |
| Video Codec | Decode: 1080p, 30fps Encode: 1080p, 30fps |
| LAN | 1st LAN: 10/100 Base-T Ethernet (Gb LAN) 2nd LAN: 10/100 Base-T Ethernet (IB112S) |
| Touch | Resistive touch IC (4-wires) on board USB/ I ² C header on board (for capacitive touch) |
| Audio | Audio pin header (1x microphone, 1x speaker) |
| RTC | RTC IC on board |
| Watchdog | 256 levels |
| NVRAM | 32K NVRAM on board (IB112F/IB112S) |
| Edge I/O | 1x 1st 10/100 LAN 1x 2nd 10/100 LAN (IB112S) 1x USB 2.0 Host (Type-A) 1x USB OTG (mini-USB Type-B) 1x COM RS-232/422/485 1x SD socket (up to 32GB) 1x DC-in jack 1x HDMI (Type-A) 1x Reset button |
| Headers & Expansion Slots | Headers: 8x GPIO pin header (IB112F/IB112S) 1x VGA pin header (112F) 1x Debug port pin header 1x USB2.0 host box header 1x I ² C pin header 1x RS232 pin header 1x 4-wire resistive touch pin header 2x CAN Bus 2.0B (w/ isolation) pin headers (IB112S/ IB112T) 1x Dual channel LVDS box header (supports full HD) 1x Audio pin header (1x microphone, 1x speaker) 1x SATA header (IB112F) Slots: 1x Full-size Mini PCI-E (w/ USB interface only) |
| Dimensions | 102mm x 147mm (4" x 5.8") |
| Power | 12V~24V DC-in |

Features

- NXP ARM Cortex-A8, 800MHz CPU
- Supports DC 12V~24V input voltage
- 1GB DDR3, eMMC (option) on board
- Supports Resistive touch header (4-wires), and I²C/USB header for capacitive touch
- Supports OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
- Supports COM, CAN (option), USB-OTG, SD/micro-SD card, VGA, HDMI, LVDS
- Supports rich I/O interface for BOM customization

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| Operating Temperature | -10°C ~ 60°C (-14°F ~ 140°F) |
| Devices | WiFi / GPS / 3G module (option) |
| Software Support | Ubuntu Linux 10.04 (kernel 2.6)/ Android 2.3.4/ WINCE7 |
| Relative Humidity | 10%~90% (non-condensing) |
| Certification | CE/FCC Class A |

Ordering Information

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| IB112 | 3,5-inch SBC w/ Industrial-Grade NXP i.MX536 (800MHz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3x COM ports, Mini PCI-E(x1) slot |
| IB112F | 3,5-inch SBC w/ Industrial-Grade NXP i.MX536 (800MHz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3x COM ports, Mini PCI-E(x1) slot, HDMI, 8x GPIO, VGA, 32K NVRAM, SATA |
| IB112S | 3,5-inch SBC w/ Industrial-Grade NXP i.MX536 (800MHz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3 COM ports, Mini PCI-E(x1) slot, HDMI, 8x GPIO, 2x CAN, 2nd LAN, 32K NVRAM, 16GB eMMC |
| IB112T | 3,5-inch SBC w/ Industrial-Grade NXP i.MX536 (800MHz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3x COM ports, Mini PCI-E(x1) slot, HDMI, 2x CAN, 8GB eMMC |
| Accessory (Optional) | RF: -WiFi module (USB I/F) -BT module (USB/I/F) Display: -800 x 600, Resistive touch header (4-wires) panel Debug cable: -PK1-100A |