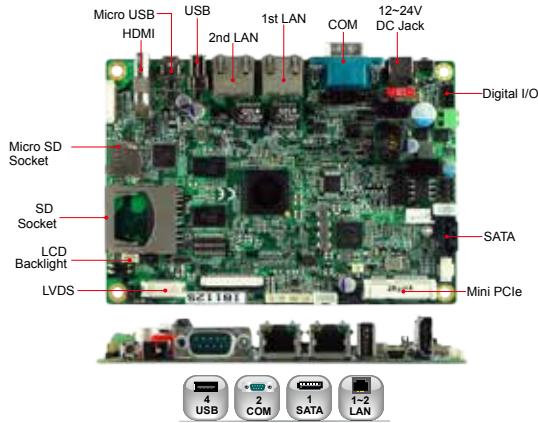


IB112

ARM-Based SBC with Freescale i.MX536 Cortex-A9 Dual Core 800MHz SoC



Features

- Freescale 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

Specifications

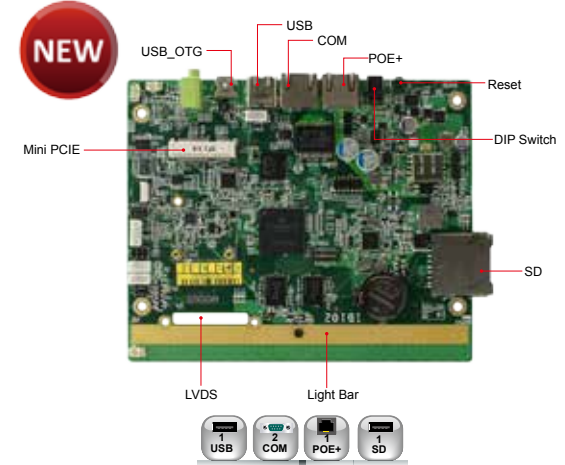
Form Factor	3.5" Disk-Size SBC, 102mm x 147mm
CPU	Freescale Cortex™ -A8 i.MX536 800MHz
System Memory	1GB DDR3 on board
Data Memory	eMMC (IB112F:8GB; IB112S: 16GB) on board SD socket (up to 32GB), micro SD socket (up to 32GB)
Display	HDMI (IB112F/IB112S/IB112T) 18/24 bit single channel LVDS (up to 1366x768), VGA (IB112F)
Video Codec	Decode: 1080p, 30fps Encode: 720p, 30fps
LAN	1st LAN : 10/100/1000 Base-T Ethernet (Gb LAN) 2nd LAN : 10/100 Base-T Ethernet (IB112S)
Touch	Resistive touch IC (4-wires) on board USB/ I2C 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 (RS232/422/485) 1x SD socket (up to 32GB) 1x DC-in jack 1x HDMI (Type-A) 1x Reset button
Headers & Expansion Slots	Headers: 1x GPIOx8 pin header (IB112F/IB112S) 1x VGA pin header (112F) 1x Debug port pin header 1x USB2.0 host box header 1x I2C pin header 1x RS232 pin header 1x 4-wired 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)
Power	12V~24V DC-in
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)

Ordering Information

IB112	3.5-inch SBC w/ Industrial-Grade Freescale i.MX536 (800MHz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3 COM Ports, Mini PCI-E(x1) slot
IB112F	3.5-inch SBC w/ Industrial-Grade Freescale i.MX536 (800MHz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3 COM Ports, Mini PCI-E(x1) slot, HDMI, 8x GPIO, VGA, 32K NVRAM, SAIA
IB112S	3.5-inch SBC w/ Industrial-Grade Freescale 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 Freescale i.MX536 (800MHz), DDR3 1GB, 10/100 LAN, SD, Micro-SD, 3 COM Ports, Mini PCIe(x1) slot, HDMI, 2x CAN, 8GB eMM RF: - 3G+GPS Combo (Mini PCIe card) - WiFi module (USB /IF) - BT module (USB/IF) Display: - 800 x 600, Resistive touch header (4-wires) panel Debug cable: - PK1-100A
Accessory (Optional)	

IB102

ARM-based SBC with Freescale i.MX6 Cortex-A9 Solo Core 1GHz SoC



Features

- Freescale ARM Cortex-A9, 1GHz CPU
- 1GB DDR3, 4GB eMMC on board
- Supports POE+, COM, USB-OTG, SD card, LVDS
- Supports Resistive touch header (4/5-wires), and capacitive touch interface.
- Supports OpenGL ES 2.0
- Supports rich I/O interface for BOM customization

Specifications

Form Factor	131mm x 160mm
CPU	Freescale Cortex™ -A9 i.MX6 Solo 1GHz
System Memory	1GB DDR3 on board
Data Memory	4GB eMMC on board SD socket (up to 32GB)
Display	18/24 bit single channel LVDS (up to 1366 x 768)
Video Codec	Decode: 1080p, 30fps Encode: 1080p, 30fps
LAN	1st LAN : 10/100/1000 Base-T Ethernet (Gb LAN)
Touch	PM6000 resistive touch IC (4/5-wires) on board USB/ I2C header on board (for capacitive touch)
Audio	Audio pin header (1x microphone, 1x speaker)
RTC	Seiko RTC IC on board
Watchdog	256 Levels
Edge I/O	1x 10/100/1000 LAN (Gb LAN) 1x USB 2.0 Host (Type-A) 1x USB OTG (mini-USB Type-B) 1x COM (RS232/422/485) 1x SD socket (up to 32GB) 1x DC-in jack 1x Reset button
Headers & Expansion Slots	Headers: 1x GPIOx8 pin header 1x Debug port pin header 1x USB2.0 host box header 1x I2C pin header 1x 4/5-wired resistive touch pin header 1x Single channel LVDS box header (up to 1366 x 768) 1x Audio pin header (1x microphone, 1x speaker) Slots: 1x Full size Mini PCI-E with USB interface Others: 1x LED light bar (Green/Red/Orange configurable)
Others	Supports POE/POE+ (802.3at 25.5W)
Power	12V DC-in or POE+
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Devices	WiFi / GPS / 3G module (option)
Software Support	Ubuntu Linux 11.10(kernel 3.0.35)/ Android 4.3
Relative Humidity	10%~90% (non-condensing)

Ordering Information

IB102	Freescale i.MX6 Solo (1GHz) SBC, 1GB DDR3, Gb LAN, SD, COM (RS232/422/485) ports, Mini Mini PCI-E, HDMI, 8x GPIO, 4GB eMMC, 4/5-wired R-touch, Light Bar, 12V and POE+ support
IB102A	Freescale i.MX6 Solo (1GHz) SBC, 1GB DDR3, Gb LAN, SD, COM (RS232/422/485) ports, Mini Mini PCI-E, 8x GPIO, 12V DC-in support RF: - 3G+GPS Combo (Mini PCIe card) - WiFi+BT Combo (Mini PCIe card) - WiFi module (USB /IF) - BT module (USB/IF) Display: - 800 x 600, resistive touch panel (5 wires) - LVDS cable: LCD326 Debug cable: - PK1-100A
Accessory (Optional)	