



Features

- NXP 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

System

Form Factor	Disk-Size SBC
CPU	NXP 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
NVRAM	N/A
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: 8x GPIO pin header 1x Debug port pin header 1x USB2.0 host box header 1x I²C pin header 1x 4/5-wire 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)
Dimensions	131mm x 160mm (5.16" x 6.3")
Power	12V DC-in or PoE (IEEE 802.at Class3)
Others	Supports POE/POE+ (802.3at 25.5W)

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)
Certification	CE/FCC Class A

Ordering Information

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