BF8A1

FREESCALE i.MX6 SBC

BF8A1 is a 3.5" compact board with an on-board Freescale i.MX6 solo, dual or quad cores 1.0GHz CPU with up to 2GB RAM and 4GB eMMC onboard. This 3.5" SBC features several video output ports (HDMI, VGA, LVDS 24-bit interface), one Gigabit Ethernet, four USB ports and four COM ports and one mini PCI Express slot for additional expansion.

Feature

Freescale i.MX6 solo, dual or quad cores
1GHz CPU with ARM Cortex-A9 core
OS support Android 4.x and Ubuntu 12.04
HDMI 1.4
Single channel or dual channel 24-bit LVDS
WLAN support 802.11 b/g/n
4GB eMMC onboard
Support 4* USB port
Support 4* COM port

Overhead View

Processor
Freescale i.MX6 solo, dual or quad cores 1.0GHz CPU
1GB RAM onboard, up to 2GB

Operating system
Ubuntu 12.04
Android 4.x in the future

Display and Touch Screen
1* HDMI port compliant with HDMI 1.4
1* VGA port (D-SUB15)
Single channel or dual channel 24-bit LVDS
1* LCD backlight Connector
1* Capacitive touch panel
1* 4-wire or 5-wire Resistive touch panel

Audio
Audio Pin header (SPK out x1, MIC in x1)

Storage
4GB eMMC onboard
MMC/SD slot(Micro SD)

Communications
802.11b/g/n wireless
Bluetooth 4.0

I/O interface
1* 10/100/1000M Ethernet interface
2* USB 2.0 standard type A
2* USB port by pin header
1* SATA w/power pin
1* RS232/422/485 (D-SUB9 full signal, W/+5V/+12V/RI)
1* RS232/422/485 pin header
1* RS232 pin header (TX, RX, RTS, CTS, W/+5V/+12V/RI)
1* RS232 pin header (TX, RX, RTS, CTS W/O +5V/+12V/RI)
1* Mini-PCIe socket
1* DC Jack 9-36 VDC

Option
3.5G modem, GSM, HSDPA 14.4Mbps
5 megapixel camera x1 (from USB, compatible with UVC)
HF RFID reader on board (NFC)

Dimension (L*W)
3.5" SBC 146*102 mm

Environmental
Operating Temperature:0 ~ 70℃ , option : -40 ~ 85℃
Storage Temperature: -40~ 85℃
Ambient Relative Humidity: 5 ~ 95% RH

Freescale i.MX6 1.0G	WLAN b/g/n	3G	GbE LAN	Bluetooth 4.0	USB	1080P HDMI	Android 4.x Linux