



Features

- NXP Cortex™-A9, i.MX 6Dual-Lite, 1GHz Processor
- Supports HDMI and Single LVDS (1366x768)
- Supports 1GB DDR3, 4GB eMMC and Micro SD socket
- Embedded I/O as COM, GPIO, USB, USB-OTG, Audio and Ethernet
- M.2 Key-E (2230) for 4G/LTE connectivity

System

Form Factor	2.5-inch Disk-Size SBC
Processor	NXP Cortex™ -A9 i.MX 6Dual-Lite, 1GHz
System Memory	1GB DDR3 on board
Flash Memory	4GB eMMC on board (optional 8/16/32/64 GB)
Display	1x 18/24-bit single LVDS, up to 1366 x 768 1x HDMI V1.4, up to 1080P at 60Hz
Video Codec	<ul style="list-style-type: none"> • i.MX53 + VP6 / WebM VP8, H.264 MVC • 1080p30 + D1 • 1080p30 H.264BP • Dual 720p encode
Graphics	<ul style="list-style-type: none"> • Vivante GC880, OpenGL ES 2.0 • Vivante GC320
Edge I/O	1x RJ45 GbE LAN 2x USB Type-A 1x USB OTG (mini-USB Type-B) 1x HDMI 1x RS232/422/485 (D-SUB 9 male connector) 1x Micro SD socket (UHS-I SDR-104, max.104MB/s) 1x Reset button
Header, Expansion & LEDs	1x Single Channel LVDS (1366x768) 1x Backlight, 3.3V/1A, 5V/1A, 12/1A (jumper selection) 2x USB 2.0 header 1x M.2 Key-E (2230) w/ PCI-E, USB, SDIO, UART 1x I²C header 1x 2-wire UART header (for debug console port) 2x 2-wire UART (1x6 pin header, 1.0mm) 1x Audio pin header (Line-in and Line-out) 8x GPIO (2*5 pin header 1.0mm) 2x Green LEDs (for power On/Off, and wireless status)
Watchdog	256 levels, 0~128 secs
Dimensions	100mm x 72mm (3.94" x 2.83")
Power Input	12V DC-in Jack
Operating Temperature	-40°C ~ 85°C

OS Support	Yocto v2.1 (Kernel 4.1.15) Android 6.0.1 (Kernel 3.14.52)
Relative Humidity	10%~90% (non-condensing)
Certification	CE/ FCC Class B

Ordering Information

IBR115	2.5" ARM-based SBC, NXP Cortex™ -A9, i.MX 6Dual-Lite 1GHz, 1GB DDR, 4GB eMMC, Single LVDS, HDMI, RS-234/422/485, USB, M.2 Key E (2230)
Heatsink	HSIBR115-A
Cables	LCD403: Panel cable for 7" LCD404: Panel cable for 15" IVT-76: Backlight for 7" and 15" panel PK1-135: GPIO PK1-133: COM port USB-81: USB OTG cable PK1-100A: Debug cable
RF modules	WNFT-234ACN: WiFi/BT M.2 module
Display	AM-1024600ATMQW-A0H: - 7" Capacitive LVDS TFT LCD, 1024 x 600 M150GNN2 R1: - 15" Capacitive LVDS TFT LCD, 1024 x 768