

Huameishi Technology

IBR115 Single Board Computer

Low-Power Multimedia IoT 2.5" SBC with

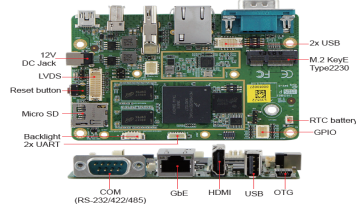
NXP ARM® Cortex-A9 i.MX 6 Dual-Lite 1GHz Processor

Single Board Computer

Low-Power Multimedia IoT 2.5" SBC with NXP ARM® Cortex-A9 i.MX 6 Dual-Lite 1GHz Processor

Features

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



Specifications

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	• VP6 / WebM VP8, H.264 MVC • 1080p30 + D1 • 1080p30 H.264BP • Dual 720p encode
Graphics	• 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 PC 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
Power	12V DC-in Jack
Operating Temperature	-40°C ~ 85°C
Relative Humidity	10%~90% (non-condensing)
Software Support	Yocto v2.1 (Kernel 4.1.15) Android 6.0.1 (Kernel 3.14.52)
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
Cable	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 module	WNFT-234ACN, Wi-Fi/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