



Features

- NXP Cortex™-A9, i.MX 6Dual processor
- Supports HDMI and dual LVDS
- 1GB DDR3, 4GB eMMC and SD socket for expansion
- Embedded I/O, COM, GPIO, USB, USB-OTG, audio and Ethernet
- M.2 E-Key (2230) and Mini PCI-E with SIM socket for wireless/4G/LTE connectivity
- Wide-range operating temperature (-40°C~85°C)

Specifications

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|-----------------------|--|
| Form Factor | 3.5-inch SBC |
| Processor | NXP Cortex™ -A9 i.MX 6Dual processor |
| System Memory | 1GB DDR3 on board |
| Flash Memory | 4GB eMMC on board (optional 8/16/32/64 GB) |
| Display | 2x 18/24-bit single LVDS /1x Dual LVDS, up to 1366 x 768 for 2ch, 1920 x 1080 for 1ch 1x HDMI V1.4, up to 1080P at 60Hz |
| Video Codec | <ul style="list-style-type: none"> • 1080p60or30 + D1 Dual 1080p decode • 1080p30 H.264BP • Dual 720p encode |
| Graphics | <ul style="list-style-type: none"> • Vivante GC2000, OpenGL, GL ES 2.0 & Haili, CL EP • Vivante GC355, OpenVG 1.1 |
| 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 SD socket (UHS-I SDR-104, max.104MB/s) 1x Reset button |
| Internal I/O | 1x Dual-channel LVDS (FHD) 1x Backlight, 3.3V/1A, 5V/1A, 12V/1A (jumper selection) 2x USB 2.0 header 1x M.2 E-Key (2230) w/ USB, SDIO, UART, PCI-E 1x Mini PCI-E (USB only) w/ SIM socket 1x SATA & 4-pin header for the power, 5V/12V 2x CAN Bus 2.0B (2*3 pin header) 1x I ² C header 1x 2-wire UART header (for Debug Console Port) 2x 2-wire UART (6-Pin header, 1.0mm) 1x Audio header (Line-in and Line-out) 8x GPIO (2*5 pin header 1.0mm) 3x Green LEDs (for Power On/Off, wireless status, and Programmable) |
| Expansion IO | N/A |
| Watchdog | 256 Levels, 0~128 secs |
| Dimensions | 147mm x 102mm (5.8" x 4") |
| Power Input | 12V DC-in jack |
| Operating Temperature | -40°C ~ +85°C (-40°F ~ 185°F) |

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

Ordering Information

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| IBR117 | 3.5" ARM-based SBC, NXP Cortex™ -A9, i.MX 6Dual 1GHz processor, 1GB DDR, 4GB eMMC, Dual LVDS, HDMI, RS-232/422/485, USB, M.2 E-Key (2230) and Mini PCI-E w/ SIM socket |
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Dimensions

