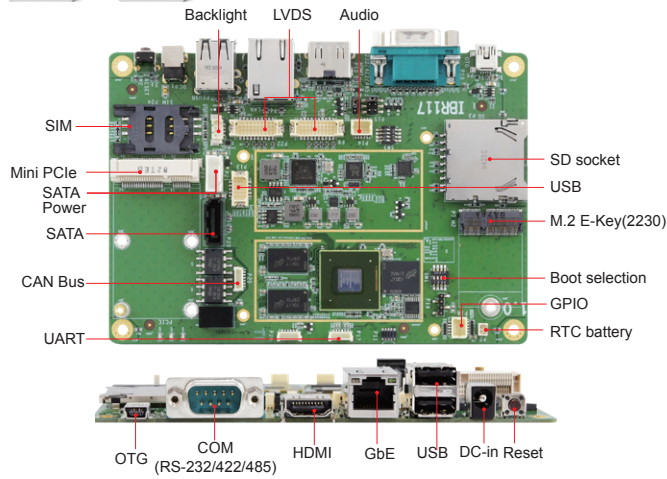




Features

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

Specifications

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 (option: 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	• 1080p60or30 + D1 Dual 1080p decode • 1080p30 H.264BP • Dual 720p encode
Graphics	• 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, PCIe 1x Mini PCIe (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 I²C 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)

Relative Humidity	10%~90% (non-condensing)
OS Support	Yocto 2.1 Android 6.0.1
Certification	CE/ FCC Class-B

Ordering Information

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 PCIe w/ SIM socket
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Dimensions

