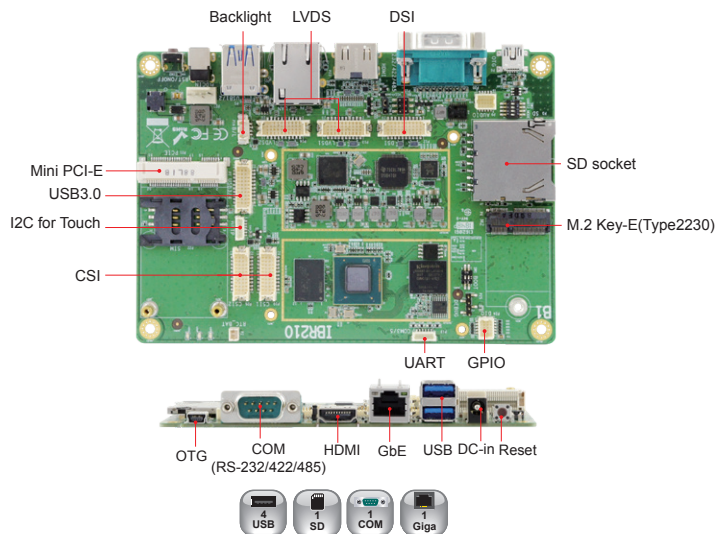




System

Form Factor	3.5-inch Disk-Size SBC
CPU	NXP Cortex™-A53 i.MX 8M Dual/Quad 1.5GHz processor
System Memory	3GB LPDDR4 on board
Data Memory	8/16GB eMMC on board
Display	1x 18-/24-bit FHD Dual LVDS 1x HDMI V2.0a up to 4K, supports HDCP2.2 and HDCP1.4
Video Codec	Encoder: FHD 1080p 30 H.264. Decoder: UHD 4Kp 60 HEVC/ H.265 10-bit MP, RV9, AVC/ H.264, VP8, MPEG-2, MPEG-4p2, VC-1, AVS/ AVS+, MJPEG, H.263
Graphics	OpenGL 3.1, OpenCL 1.2, Vulkan
LAN	10/100/1000 Mbps
Audio	2x 5 pin header, pitch 1.0 mm for Line-in/out
RTC	IDT 1337AGDVGI8
Watchdog	256 Levels, 0~128 secs
Edge I/O	1x GbE (RJ45 connector) 2x USB 3.0 Type-A, 1x USB OTG Mini-USB 1x HDMI V2.0a 1x RS232/422/485 (D-SUB 9 male connector) 1x SD socket (UHS-I SDR-104, 104MB/s max.) 1x Power button
Header, Expansion & LEDs	1x Backlight, 3.3V/1A, 5V/1A, 12/1A (Jumper selection) 1x 4-pin wafer (for Debug Console Port) 1x Audio pin Header (Line-in and Line-out) 2x 2-wire UART pin header 2x USB 3.0 by pin header 1x M.2 Key-E (2230) w/ USB, SDIO, UART, PCI-E 1x Mini PCI-E w/ SIM Socket 3x Green LEDs (for Power On/Off, Wireless status, and Programmable) 8x GPIO (2*5 pin header 1.0mm) 2x MIPI-CSI (2*10 pin header) 1x MIPI-DSI (2*10 pin header)
Dimensions	147mm x 102mm (5.8" x 4")
Power	12~24V DC-in Jack and Internal header

Features

- With NXP Cortex™-A53, i.MX 8M Dual/Quad 1.5GHz processor
- Supports up to 4K HDMI, FHD Dual LVDS
- Supports 3GB LPDDR4, 8/16GB eMMC and SD socket
- Supports embedded I/O for COM, GPIO, USB3.0, USB-OTG, Audio and Ethernet
- Supports M.2 Key-E (2230) and Mini-PCI-E w/ SIM socket for wireless connectivity

Operating Temperature	0°C ~ 85°C (Option: -40°C ~85°C)
Devices	WiFi/BT module (option) 3G/GPS module (option) 4G/LTE module (option)
Software Support	Yocto 2.1 (Kernel 4.14.62) Android 9
Relative Humidity	10%~90% (non-condensing)
Certification	CE/ FCC Class B

Ordering Information

IBR210-D308	3.5" ARM-based SBC, Cortex™-A53 i.MX 8M Dual 1.5GHz, 3GB LPDDR4, 8GB MLC eMMC, Dual LVDS, HDMI, RS-234/422/285, USB, M.2 Key-E(2230) and Mini PCI-E w/ SIM socket
IBR210-Q316	3.5" ARM-based SBC, Cortex™-A53 i.MX 8M Quad 1.5GHz, 3GB LPDDR4, 16GB TLC eMMC, Dual LVDS, HDMI, RS-234/422/285, USB, M.2 Key-E(2230) and Mini PCI-E w/ SIM socket
RF module	WNFT-234ACN, WiFi/BT M.2 module UC20GC, 3G/GPS mPCIe module QUECTEL EC20, 4G/LTE mPCIe module