



Features

- NXP Cortex™-A53, i.MX 8M Plus Quad 1.6GHz processor
- 3GB LPDDR4, 16GB eMMC & SD socket for expansion
- Embedded I/O for COM, USB, HDMI, Ethernet
- Supports M.2 Key-B (3052), M.2 E-key and mPCIe for WiFi/BT, 4G/LTE or 5G add-on module
- Ruggedized and Fanless Design

Specifications

System Board	IBR215-Q316I SBC
Processor	NXP Cortex™-A53, i.MX 8M Plus Quad 1.6GHz, NPU up to 2.3 TOPS
System Memory	3GB LPDDR4 on board (optional 1/2/4GB)
Storage	16GB eMMC on board (optional up to 128GB)
Construction	SGCC
Color	Black
Display	HDMI 2.0a Edge connector LVDS 2ch heater expansion (IO board)
Network	2x RJ45 GbE LAN
Watchdog	256 levels, 0~128 seconds
Front I/O	1x HDMI 2.0a 2x USB 3.0 Type-A 2x RJ45 GbE LAN 1x Mini-USB OTG 1x RS232/422/485 (IO board)
Rear I/O	4x Antenna hole (reserved)
Side I/O	1x On/Off button 1x 12V~24V DC-in Jack 1x SD socket (UHS-I SDR-104, 104MB/s max) 1x Boot select switches (boot from eMMC or SD)
Expansion slots	1x M.2 3052 Key-B with SIM socket (for 5G module) 2x I2C / 4x GPIO 6-pin header 1x Audio Line-in and Line-out 6-pin header 1x DC power in 4-pin header 1x mPCIe (IO board, for 4G/LTE USB interface module) 1x M.2 E-key (IO board, UART and SDIO for WiFi/BT modules) The following features are also available on IO board but not outside box. 2x USB 3.0 in 2x 10-pin header 1x LVDS 2ch with Back light control 1x Cap touch IF 2x MIPI-CSI for cameras 2x CAN-FD 1x 5V DC
Fanless	Yes

Dimensions (WxDxH)	TBD
Mounting	DIN rail, wall mount
Operating Temperature	-40°C~ 85°C (-40°F ~ 185°F)
Relative Humidity	0%~ 90% (non-condensing)
OS Support	Yocto v3.0 Android 11 Other OS (by request)
Certification	CE/ FCC Class-B

Ordering Information

ISR215-Q316I	ARM-based IOT Gateway, NXP i.MX 8M Plus - ARM Cortex-A53 Quad 1.6GHz processor, 3GB LPDDR4, 16GB eMMC
ISR215F-Q316I	ARM-based IOT Gateway, NXP i.MX 8M Plus - ARM Cortex-A53 Quad 1.6GHz processor, 3GB LPDDR4, 16GB eMMC and Expansion IO board