



Features

- NXP i.MX 8M - ARM Cortex-A53 Quad processor
- 3GB LPDDR4, 16GB eMMC & SD socket for expansion
- Embedded I/O for COM, GPIO, USB, HDMI, Ethernet
- Supports M.2 E-Key (2230) and Mini PCI-E with SIM socket for Wireless/4G/LTE connectivity
- Ruggedized and fanless design

Specifications

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|-----------------------------|--|
| System Mainboard | IBR210-Q316I 3.5-inch SBC |
| Processor | NXP i.MX 8M - ARM Cortex-A53 Quad 1.3GHz |
| Chipset | Integrated |
| System Memory | 3GB LPDDR4 on board |
| Graphics | GC7000Lite OpenGL ES 1.1, 2.0, 3.0, 3.1, Open CL 1.2, and Vulkan |
| LAN | 1x RJ45 GbE LAN |
| Expansion Slots | 1x M.2 E-Key (2230) w/ USB, SDIO, UART, PCI-E 1x Mini PCI-E (PCI-E and USB) w/ SIM socket |
| I/O | 1x HDMI 2.0a, 4Kp60 2x USB 3.0 Type-A 1x RS232 /422/485 (DB9 connector) 1x Mini-USB OTG 1x On/Off button 2x RS232 (DB9 connector) 8x GPIO 2x Antenna hole (reserved) 3x LED indicators |
| Auto Control and Monitoring | Watchdog Timer:256 Levels, 0~128 Secs |
| Power Requirement | 12V~24V DC-in |
| Construction | SGCC |
| Weight | 0.5kg (1.1lbs) |
| Chassis Color | Black |
| Storage | 16GB eMMC on board (Default) |
| Power Supply | 60W |
| Mounting | VESA 75 / 100, DIN rail, wall mount |
| Dimensions | 172mm x 162mm x 36 mm (6.78" x 6.38" x 1.42") |
| Operating Temperature | -10°C~ 60°C (14°F ~ 140°F) |
| Storage Temperature | -40°C~ 80°C (-40°F~176°F) |
| Relative Humidity | 10%~90% (non-condensing) |
| Vibration | N/A |
| Certification | CE/ FCC Class-B |
| OS Support | Yocto v2.5 Android 9 UBUNTU 18.04 evaluation Other OS supports by request |

Ordering Information

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|--------------|---|
| ISR301-Q316I | ARM-based IOT Gateway, NXP i.MX 8M - ARM Cortex-A53 Quad 1.3GHz processor, 3GB LPDDR4, 16GB eMMC, HDMI, RS-232/422/285, USB3.0, M.2 E-Key (2230) & Mini PCI-E w/ SIM socket |
|--------------|---|

Dimensions

