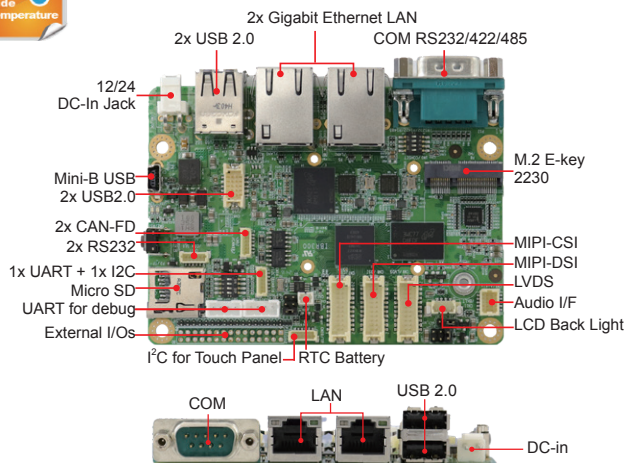




Features

- NXP i.MX 93 - ARM Cortex-A55 Dual Core 1.7GHz Processor
- 2GB LPDDR4, 32GB eMMC & SD socket for expansion
- 1x COM, 1x 1080p60 MIPI-DSI, 1x 720p60 LVDS, 2x USB, 2xGb Ethernet
- Supports M.2 E-Key (2230) for WiFi/BT module
- Supports Yocto5
- Wide-range operating temperature (-40°C~85°C)
- Ruggedized and fanless design

Specifications

Form Factor	2.5-inch SBC
Processor	NXP Cortex®-A55 i.MX 93 Dual Core industrial-Grade SoC operating up to 1.7 GHz MCU: Cortex®-M33 CPU operating up to 250 MHz NPU: ARM Ethos®-U65 microNPU (256 MACs operating up to 1.0 GHz and 2 OPS/MAC)
System Memory	2GB LPDDR4 on board
Flash Memory	32GB eMMC on board (up to 256GB)
Display	1x LVDS 1x MIPI-DSI
Video Codec	N/A
Graphics	Pixel processing pipeline (PXP) engine to support 2D image processing
Edge I/O	2x USB2.0 (Type-A) 1x Reset button 1x 12V~24V DC-in lock jack 2x Gigabit LAN port 1x COM port for RS232/422/485 2x RJ45 GbE LAN
Internal I/O	2x USB 2.0 (2x5-pin wafer connector) 1x Debug COM port 2x COM port (RS232, 3-pin header) 2x CAN FD pin header 1x I2C / 1x UART pin header 1x Audio Line-in and Line-out (6-pin header) 1x RTC battery pin header 1x DC power (4-pin header) 1x Pin DIP Switch 2x Green LED for power on/off 1x M.2 E-Key (2230) for WiFi/BT module 1x Micro SD slot 1x I2C 1x UART
Expansion IO	N/A
Watchdog	256 Levels, 0~128 Secs
Dimensions	105mm(W) x 72mm(D) (4.13"x 2.83")
Power Input	12/24VDC-IN jack and internal header
Operating Temperature	-40°C~85°C (-40°F ~ 185°F)
Relative Humidity	0 % to 90 % RH at 60° C (non-condensing)
OS Support	Yocto 5.0 Support for other OS available upon request
Certification	CE/ FCC Class-B

Ordering Information

IBR300	ARM-based IOT Gateway, NXP i.MX 93 Cortex-A55, 1.7GHz, 2GB LPDDR4, 32GB eMMC
HSIBR300-A	Heat sink

Dimensions

