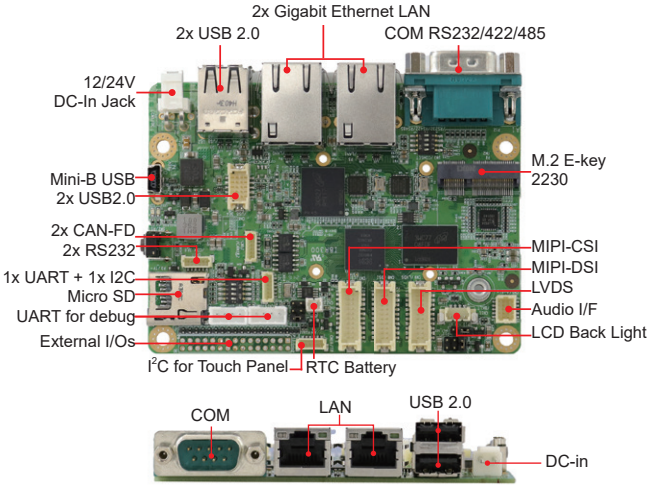
IBR300

NXP i.MX 93 - ARM Cortex-A55 Dual Core Processor





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)

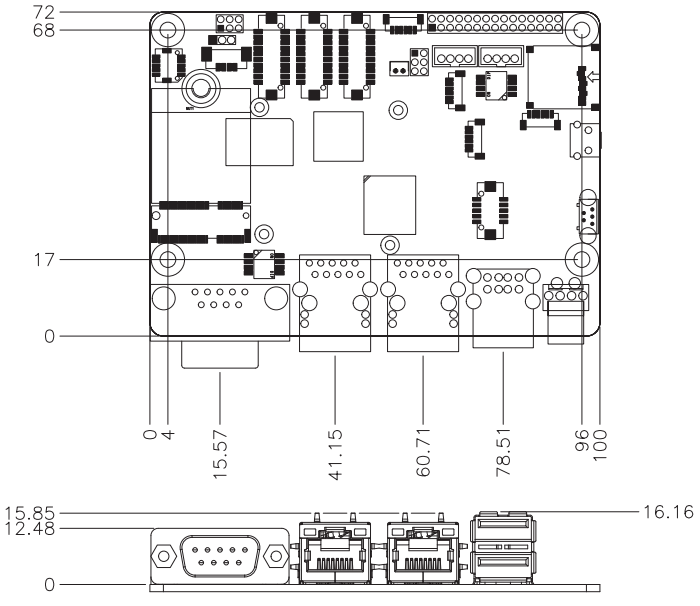
Specifications

CPU	NXP i.MX 93: 2x Arm® Cortex®-A55 up to 1.7GHz (Industrial Grade), 1x Arm® Cortex®-M33 up to 250MHz
AI Performance	Arm® Ethos™ U-65 microNPU
PCH	N/A
Memory	2GB LPDDR4 on board, Non-ECC
BIOS	N/A
Watchdog Timer	256 levels, 0~128 Secs
H/W Monitor	N/A
Storage Device Interface	32GB eMMC on board (up to 256GB) 1x Micro SD slot
Expansion Slots	1x M.2 E-Key (2230) for Wi-Fi/BT module
Mini Type Slots	N/A
Graphics Controller	Pixel Processing Pipeline (PXP) engine for 2D image processing
Video Output	1x MIPI-DSI (up to 1080p60) 1x LVDS (up to 720p60)
Ethernet	2x Gigabit Ethernet (RJ45)
I/O Chipset	N/A
Serial Port	1x RS232/422/485 (DB-9) 2x RS232 (3-pin header), 1x UART (pin header), 1x Debug COM
USB 2.0	2x USB 2.0 Type-A, 2x USB 2.0 via 2x5-pin wafer connector
USB 3.X	N/A
Serial ATA	N/A
Audio	Line-in & Line-out (6-pin header)
TPM	N/A
Others	2x CAN FD, 1x I²C, 1x MIPI-CSI, I²C for touch panel 1x DIP switch, 2x LEDs, RTC battery header 12/24VDC-IN jack and internal header
Dimensions (L x W)	105mm x 72mm (4.13" x 2.83")
Power Consumption	NXP i.MX 93 1.7GHz w/ 2GB LPDDR4 (Onboard) +12V: ~0.21A
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Relative Humidity	0% ~ 90% (non-condensing @60°C)

Ordering Information

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

Dimensions and Drawings



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.