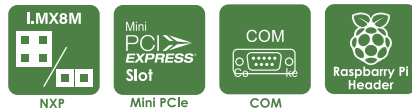


# ND118T

Pico-iTX Form Factor  
NXP® i.MX8M Family

## Features

- NXP® i.MX8M Dual Core & Quad Core Processor
- LPDDR4 Memory (Options for 1GB / 2GB / 4GB)
- eMMC Storage (Options for 8GB / 16GB / 32GB)
- Support up to 1 x Giga LAN
- Support up to 1x HDMI (4K)
- Support 1 x Mini PCIe expansion slot
- Support 1 x Raspberry Pi fully Compatible 40-pin Header
- Up to 2 x USB 3.0, 2 x USB 2.0, 1 x COM port (RS232/422/485)
- 12~24V DC Power Input

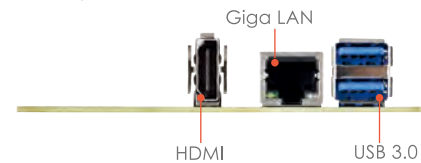
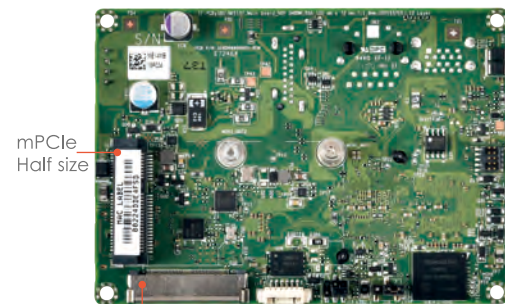


NXP Dual/Quad Core

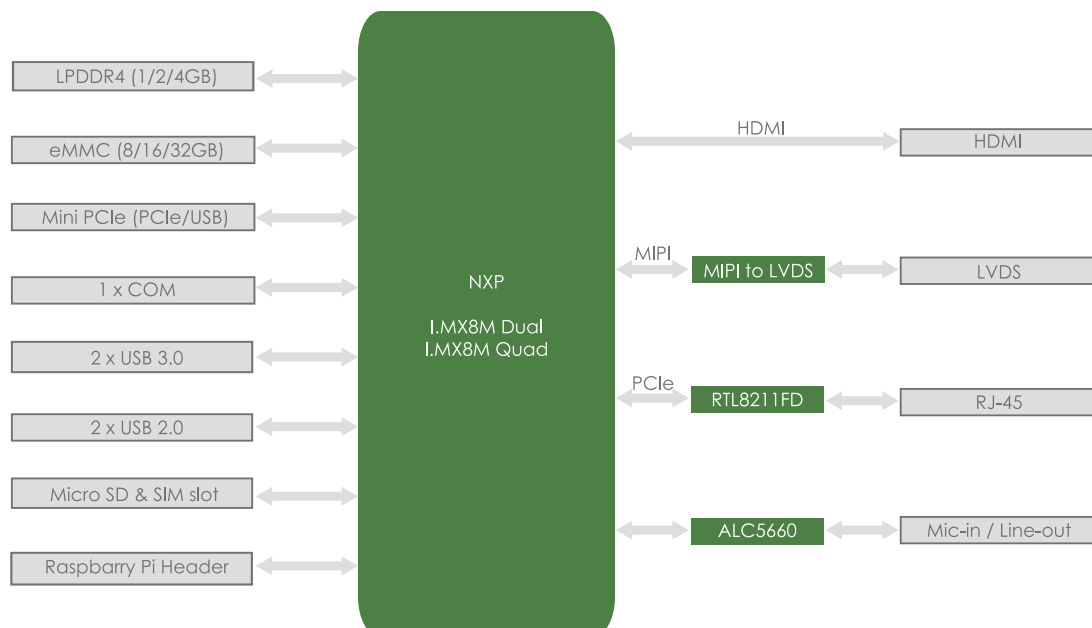
Mini PCIe

COM

Raspberry Pi Header



## Block Diagram



## ND118T Pico-iTX

MECHANICAL	
Form Factor	Pico-iTX 2.5" SBC: 3.94" x 2.84" (100 mm x 72 mm)
SYSTEM	
Processor	NXP® i.MX8M Family : 8M Quad (4 x Cortex-A53 @ 1.3GHz) / 8M Dual (2 x Cortex-A53 @ 1.3GHz)
Chipset	i.MX8M SoC Integrated
Memory	LPDDR4 Onboard Memory with Options: 1GB (800MHz), 2GB (1600MHz), 4GB (1600MHz)
Graphics	I.MX8 Integrated
Ethernet	1 x Realtek® RTL8211FD Giga LAN
Audio	Realtek ALC5660
I/O Chipset	—
TPM	—
Expansion Slot	Mini PCIe Full / Half size (PCIe / USB)
BIOS	—
H / W Monitor	—
Watchdog Timer	Yes
Storage	Onboard eMMC with Options for 8GB / 16GB / 32GB
GRAPHICS	
VGA	—
DVI	—
HDMI	Up to 4K (4096 x 2160) @60 Hz
DisplayPort	—
LVDS	Up to FHD (1920 x 1080) @60 Hz
eDP (Option)	—
REAR I/O	
USB	2 x USB 3.0
Display I/O	1 x HDMI 2.0
Audio I/O	—
LAN I/O	1 x RJ-45
Serial Port	—
PS/2 Port	—
Others	—
INTERNAL CONNECTORS	
Storage	1 x Micro-SIM or Micro SD combo card slot
USB	1 x USB2.0 Port Header / 1 x USB 2.0 OTG port Header
Display I/O	1 x LVDS / 1 x LCD PWR Selection Header / 1 x Backlight PWR Header
Audio I/O	1 x Line-out & Mic-in Header
Serial Port	1 x RS232/422/485 Header
PS/2 Port	—
GPIO	—
Front Panel	1 x Front Panel Header
Power	1 x 12~24V 4-pin Power Connector
Others	1 x 40-pin General Purpose Header (Fully Compatible with Raspberry Pi 40-pin Header) *Raspberry Pi is a trademark of the Raspberry Pi Foundation
POWER REQUIREMENT	
Power Input	DC-in 12~24V (4-pin Power Connector)
ENVIRONMENTAL	
Operating Temperature	-0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10% ~ 95% R/H, non-condensing
Certification	CE & FCC Class B
OS	
OS Support	Yocto 3.2 BSP Support Android 9 Pie (Kernel version 4.14.98) BSP Support

Remark: Android is suggested for 4G memory MB SKU)

### Ordering Information

Model Number	Processor	DDR4	eMMC	Display	LAN	COM Port
ND118T-8MD-1G8G-LVDS	I.MX8M Dual Core	1 GB	8 GB	HDMI + LVDS	1	0
ND118T-8MD-2G16G-LVDS	I.MX8M Dual Core	2 GB	16 GB	HDMI + LVDS	1	0
ND118T-8MQ-4G32G-LVDS	I.MX8M Quad Core	4 GB	32 GB	HDMI + LVDS	1	1

### Packing List

#### Packing

- 1 x Mainboard