IPC-MP20982

› Thin Mini-ITX Intel® Pentium® N4200 / Celeron® N3350 Embedded SoC

- ATX Power Input
- M.2
- PCIe (x1)
- SATA
- LVDS
- DDR3L
- Fan

Features

RoHS Compliant
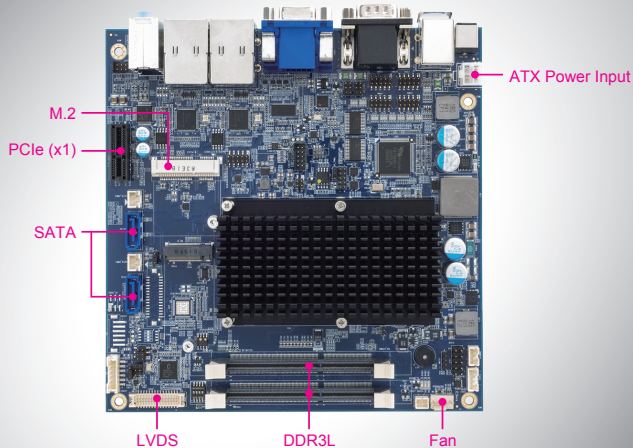
- Intel® Celeron® N3350 / Pentium® N4200 SoC
- 1 x I²C with API support
- 6 x COM, 6 x USB, 8bit DIO
- Supports 3 displays:
  LVDS + VGA + DP/HDMI (Combo, up to 4K)
- 1 x half-sized mPCIe
- 1 x M.2 slot (support 2242 device)

Specifications

System

CPU Support	Intel® Pentium® N4200: 6w, 4C, 1.1/2.5GHz
	Intel® Celeron® N3350: 6w, 2C, 1.1/2.4GHz
Chipset	Apollolake SoC
Memory Support	2 x SO-DIMM socket, supporting 1600/1866MHz DDR3L up to 8G (non-ECC)
BIOS	AMI BIOS
API/SW/FW	API/SW: Watchdog / DIO / Backlight Control / I²C / HW monitor
Power Supply	DC In 12V~24V
	Connector: 1 x DC jack on rear I/O
	1 x internal 4pin (2x2)
Power Consumption	TBD
Dimensions	170 x 170 mm (6.69" x 6.69")
Certifications	CE / FCC
O.S. Support	Windows 10 64bit

Graphics

VGA	1 x VGA (rear I/O), resolution: up to 1920x1200 @60Hz
Display Port	1 x DP/HDMI combo (rear I/O)
	- Display Port 1.2: resolution up to 4096x2160 @60Hz
	- HDMI 1.4b: resolution up to 3840x2160 @30Hz
	(Note: DP and HDMI only one work at the same time.)
LVDS	1 x LVDS (internal connector), up to dual channel, 48-bit, resolution up to 1920x1200, w/ LCD 3.3V/5V/12V signal
	Option: 2nd LVDS, dual channel 48-bit up to 1920x1200 (Internal connector) for customized BOM, must remove VGA connector and have another I/O shield

Environment

Operating Temp.	0~60°C (32~140°F)
Storage Temp.	-40~85°C (-40~185°F)
Humidity	Operation humidity 20~90%, storage humidity 20~95%

I/O Panel View

- PS/2 K/B & Mouse
- D-sub 15
- RJ 45
- Line In
- Line Out
- DC In 12~24V
- COM Port
- HDMI/DP Combo
- USB 3.0
- Mic In
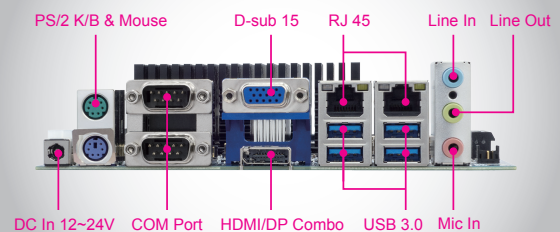
I/O Ports

SATA Interface	2 x SATA III (6.0Gb/s)
	1 x M.2 slot (support 2242 device)
Expansion Bus	1 x PCIe (x1)
	1 x half-sized mPCIe (PCIe signal only)
Serial Ports	6 x ports
	COM 1/2: RS-232/422/485 & support RI/5V/12V selected by BIOS (rear I/O)
	COM 3~6: RS-232 (pin header)
Keyboard/Mouse	2 x ports (rear I/O)
FAN	1 x 4-pin connector for CPU fan (compatible 3-pin system fan)
LAN	Dual LAN (2 x RJ45 on rear I/O)
	Supports Wake-On-LAN
	Controller: 2 x Intel® I210 (GbE)
Audio	Codec IC: Realtek ALC888 (high definition codec)
	1 x Mic In / 1 x Line In / 1 x Line Out (rear I/O)
	Option: 1 x Mic In / 1 x Lin Out (rear I/O, replace triple audio jack)
	1 x Mic In / 1 x Line Out (pin header)
Digital I/O	4 in/4 out (internal wafer)
USB	6 ports:
	2 x USB 2.0 (internal wafer)
	4 x USB 3.0 (rear I/O)