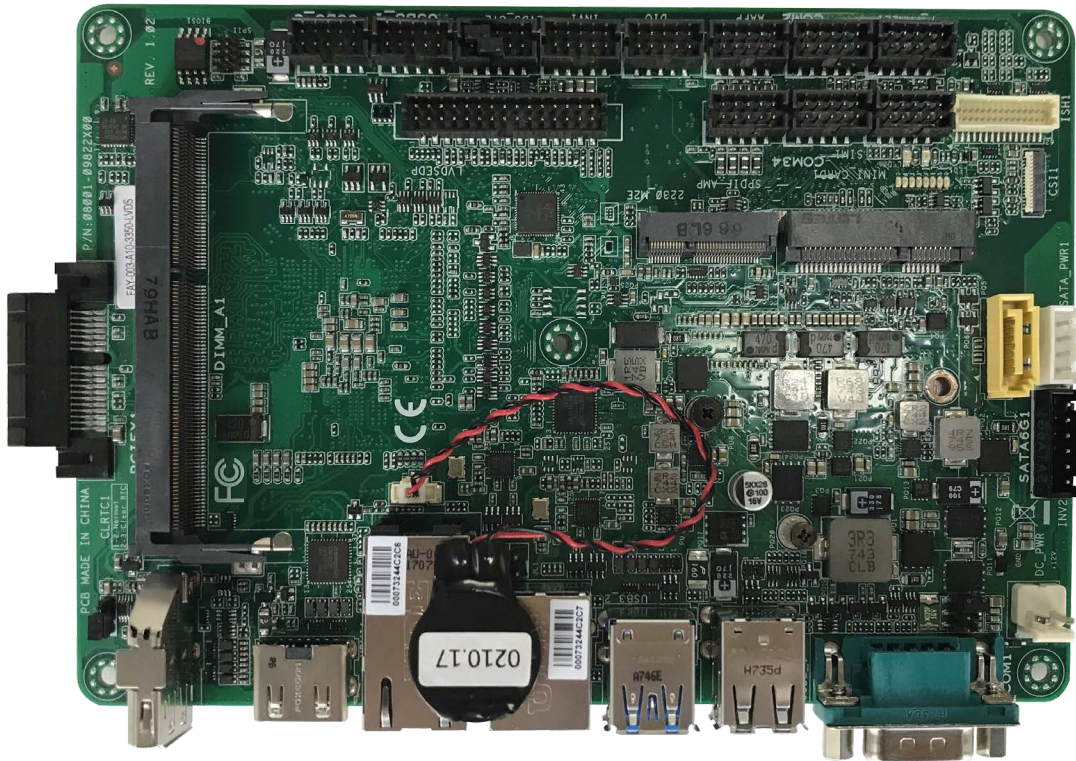


# Apollo Lake

# N3350 Mainboard N4200 Mainboard



faytech is proud to introduce the Economic Apollo Lake mainboard series. This series follows the highest industrial PC standards and provides a powerful, yet stable performance. It is available in 2 versions:

- Intel® Celeron® Dualcore N3350, with 2x 2.40 GHz
- Intel® Pentium® Quadcore N4200, with 4x 2.50 GHz

This mainboard series has a large range of available connectors: DisplayPort, HDMI, USB 3.0, USB 2.0, RJ45, PCIe and more. With higher energy-efficiency and better cooling performance than the previous versions, there should be no industrial application where this mainboard is not competent.

Take your time and design your own product around the Apollo Lake mainboard series, it will be available in production until at least 2023, with a longevity support of 15 years!



<b>Product name</b>	<b>Apollo Lake N3350 / N4200</b>
<b>Model number / EAN number</b>	<b>FTN3350</b>
	<b>FTN4200</b>

<b>Environment &amp; Power &amp; ME</b>	
Power Requirement	1x onboard 2 pin Power input connector (12 VDC ± 10%)
Power Compliance	Yes
Operating Temperature (°C)	0 ~ +60
Operating Humidity	0% ~ 90% RH, non-condensing
Certificate	CE & FCC class A
Form Factor	EPIC Form Factor, 4.53" × 6.5" (115mm × 165mm)

<b>System</b>	
CPU	Intel® Celeron® processor Apollo Lake N3350 (FTN3350)
	Intel® Pentium® processor Apollo Lake N4200 (FTN4200)
Memory	1x SO-DIMM, max. 4GB, DDR3L 1333/1600/1867 non-ECC Single channel memory
Storage	1x Serial ATA 6Gb/s
	1x 5V/12V SATA power connector
Graphics	Intel® HD Graphics
LAN	2x LAN connector (1x with POE)
Audio	1x Realtek ALC3236 Audio CODEC
TPM	1x Nuvoton NPCT650ABAYX TPM 2.0
H/W Monitor	Temperature Monitor on CPU/System
	Voltage Monitor on Vcore/5V/3.3V/12V voltages
WatchDog Timer	1~255 step by software program
Wake On LAN / PXE	Yes (WOL / PXE)
Power State	S3, S4, S5
Parallel Port	Yes
DIO	GPIO
CAN Bus	Yes

<b>Rear I/O (low profile)</b>	
1x DisplayPort - vertical (up to 4096 × 2160 @ 60 Hz)	
1x HDMI connector (up to 3840 × 2160 @ 30 Hz)	
1x COM (COM 1, RS232/422/485; RI / 5V / 12V)	
1x POE LAN (RJ45) port	
1x LAN (RJ45) port	
1x USB 3.0, 2 port stack type connector (blue)	
1x USB 2.0, 2 port stack type connector (black)	

<b>Expansion Slots</b>	
1x PCIe x1 straddle type (shares ASM1182E IC with Lan2)	
1x Mini PCIe + mSATA (with SIM card) × full/ half size BOM OPTION	
1x M.2 E-key (22 × 30mm) for wireless device	

<b>Internal I/O</b>	
1x 12V DC-IN Power Connector (2 pin)	2x USB 3.0 box header (2x 5 pin, 2.00mm)
1x PCIe x1 straddle type (optional)	1x 4 pin SATA power connector (water, 4 pin, 2.50mm)
1x SATA connector (standard, 7 pin)	3x RS232 box header (COM 2 & COM 3 & COM 4, 2x 5 pin, 2.00mm)
1x Front Panel box header (2x 5 pin, k10, 2.00mm)	1x SPDIF output box header (2x 5 pin, k4, 2.00mm)
1x eDP/LVDS box header (2x 15 pin ,2.00mm)	1x Line-out / Mic-in header (2x 5 pin, k8, 2.00mm)
1x MIPI CSI connector	1x SIM connector (2x 5pin, 2.00mm)
1x M.2 E-key slot (NGFF2230, 22 × 30mm) for wireless device	1x DIO connector (2x 5 pin, 2.00mm)
1x default Full Size Mini Card Slot (support mSATA BOM OPTION)	2x LCD Backlight control/LCD panel voltage box (2x 5 pin, 1x 6 pin, 2.00mm)

<b>Compatible OS</b>
Linux Ubuntu 16.04 (preinstalled)
Windows® 10 Enterprise
Wind River 8.0 & Yocto Project Linux distribution (64bit)



## Corporate Headquarters

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