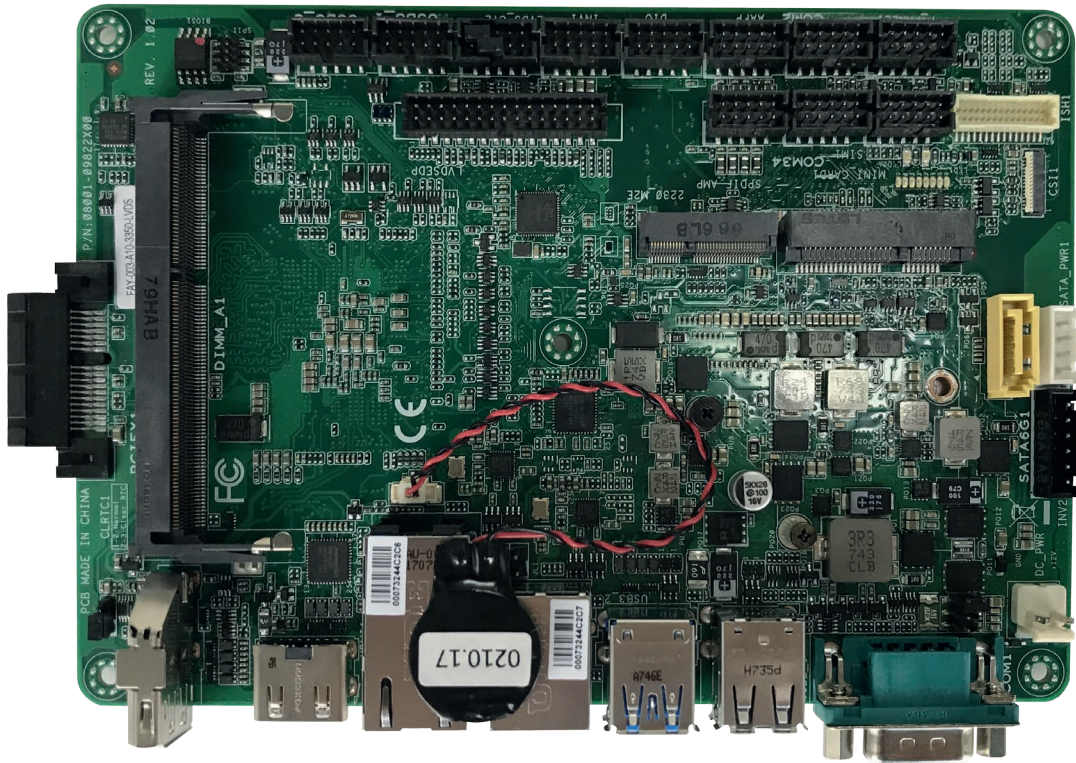


Apollo Lake

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!



| | |
|----------------------------------|----------------------------------|
| Product name | Apollo Lake N3350 / N4200 |
| Model number / EAN number | FTN3350 |
| | FTN4200 |

| Environment & Power & ME | |
|---|---|
| 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) |

| System | |
|-------------------|--|
| CPU | Intel® Celeron® processor Apollo Lake N3350 (FTN3350) |
| | Intel® Pentium® processor Apollo Lake N4200 (FTN4200) |
| Memory | 1x SO-DIMM, max. 8GB, 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 possibility) |
| 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 |

| Rear I/O (low profile) | |
|---|--|
| 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) | |
| 2x LAN (RJ45) port (LAN1 optional with POE) | |
| 2x USB 3.0 (blue) | |
| 2x USB 2.0 (black) | |

| Expansion Slots | |
|---|--|
| 1x PCIe x1 straddle type (shared with LAN2) | |
| 1x mSATA (with SIM card) × full/ half size - Can be reworked to Mini PCIe | |
| 1x M.2 E-key (22 × 30mm) for wireless device | |

| Internal I/O | |
|--|---|
| 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) |

| Compatible OS |
|---|
| Linux Ubuntu 16.04 |
| Windows® 10 Enterprise |
| Wind River 8.0 & Yocto Project Linux distribution (64bit) |



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