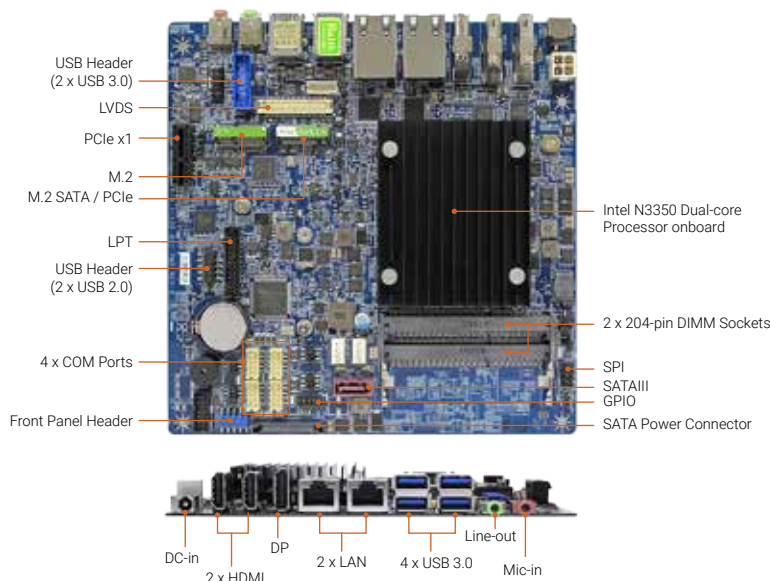


# MX3350N

Intel N3350 Thin mini-ITX motherboard with MX3350N onboard Intel Apollo Lake Processor

## Features

- Intel N3350 Dual Core SoC CPU Onboard 2.40 GHz Max Speed
- Supports two DDR3L SoDIMM 1600 MHz system memory up to 8GB
- Supports Three Independent Displays
- 1 x DP, 2 x HDMI
- 2 x M.2 sockets, 1 x PCIe x1
- 4 x COM Ports, 6 x USB 3.0, 2 x USB 2.0
- 12V DC-in, Fanless Operation
- Low Profile Thin mini-ITX
- TPM 2.0
- Supported OS: Microsoft Windows 10 64-bit



## Specifications

| System             |  |
|--------------------|--|
| CPU                | Intel N3350 2-Core Processor Onboard 2.40 GHz (Max Speed)  |
| System Chipset     | SoC  |
| System Memory      | Two 204-pin SoDIMM DDR3L 1600MHz Up to 8 GB  |
| Audio              | Realtek® ALC887 HD Audio   |
| Ethernet           | LAN1: Intel® i211-AT Gigabit Ethernet Controller<br>LAN2: Intel® i211-AT Gigabit Ethernet Controller                                 |
| BIOS               | AMI® 128Mb SPI BIOS  |
| Expansion          | 1 x 2230 M.2 E Key (with PCIe x1 Channel & USB Signal)<br>1 x 2280 & 2242 M.2 M Key (with PCIe x2, & SATA III Signal)<br>1 x PCIe x1 |
| Watchdog Timer     | Reset: 1 sec. ~ 255min. and 1sec. or 1min./step  |
| H/W Status Monitor | Monitoring System Temperature, Voltage, with Auto Throttling Control   |
| TPM                | Infineon® 9665 TPM 2.0   |

| Display   |  |
|---|--|
| Chipset   | Intel® Integrated HD Graphic Engine  |
| Interfaces  | 1 x DisplayPort, 2 x HDMI, 1 x 18/24-bit LVDS (eDP optional)<br>TI® HD3SS213 (Switch for DP & LVDS/eDP)<br>4-Lane DisplayPort Switch |
| Display Output  | Supports Three Independent Displays :<br>HDMI, HDMI, DP<br>HDMI, HDMI, LVDS  |
| * Please note:<br>1. DP does not support audio output due to the Apollo Lake SoC specification<br>2. DP and LVDS cannot run simultaneously due to the Apollo Lake SoC specification |  |

| External I/O |                                 |
|--------------|---------------------------------|
| Audio        | 1 x Line-out, 1 x Mic-in        |
| USB          | 4 x USB 3.0                     |
| LAN          | 2 x RJ-45                       |
| HDMI         | 2 x HDMI                        |
| DisplayPort  | 1 x DisplayPort                 |
| DC-in        | 1 x Barrel Type DC-In Connector |

| Internal I/O      |  |
|-------------------|--|
| LVDS              | 1 x LVDS Header (eDP Optional)   |
| USB               | 1 x USB 3.0 Header (2 x USB 3.0 Ports)<br>1 x USB 2.0 Header (2 x USB 2.0 Ports)   |
| COM (Serial Port) | 1 x RS-232/422/485 Header<br>3 x RS-232 Header   |
| SATA              | 1 x SATAIII<br>1 x 15-pin SATA Power Connector   |
| DC-in             | 1 x 4 Pin DC-In Connector  |
| MIO               | 1 x 4-pin CPU Fan Header, 1 x 4 Pin System Fan Header, 1 x 8 bits GPIO Header, 1 x Front Audio, 1 x Front Panel Header, 1 x Amplifier Locking Type Header, 1 x Onboard Buzzer, 1 x CMOS Battery Socket, 1 x LPT Header, 1 x LPC Header |

| Mechanical & Environment |  |
|--------------------------|--|
| Power Type               | 12V DC                                     |
| Operating Temp           | 0°C ~ 60°C                                 |
| Storage Temp             | -10° C ~ 60° C                             |
| Operating Humidity       | 5% ~ 85% Relative Humidity, Non-condensing |
| Storage Humidity         | 5% ~ 85% Relative Humidity, Non-condensing |
| Form Factor              | Mini ITX                                   |
| Dimensions               | 6.7" (L) x 6.7" (W)                        |
| Weight                   | 0.88 lbs                                   |

| Ordering Info       |   |
|---------------------|---|
| <b>MX3350N</b>      | Intel N3350 2-Core mini-ITX Motherboard   |
| <b>Accessories</b>  | 1 x SATA Power Cable (1x Straight SATA Power w/ Latch, 1x 4 Pin Molex, 1x Vertical SATA Power), 2 x I/O Shield (1x Standard I/O Shield & 1x Thin Client I/O Shield) |
| <b>182000000044</b> | 2.00mm pitch 11.8" length Parallel cable w/ full height bracket   |
| <b>183000000006</b> | 2.00mm pitch 12" length Serial cable  |
| <b>182437200040</b> | 2.54mm pitch 14" length Dual port USB cable w/ full height bracket. (USB 2.0)   |

\* All product specifications and images are subject to change without notice. Last update: 09/10/2018



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