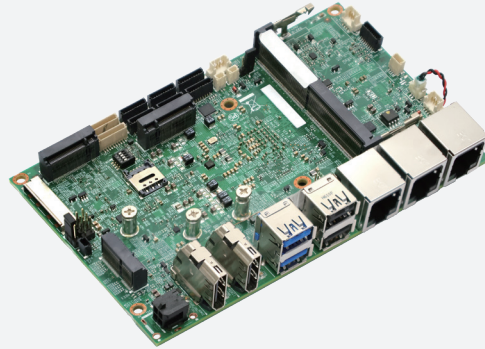
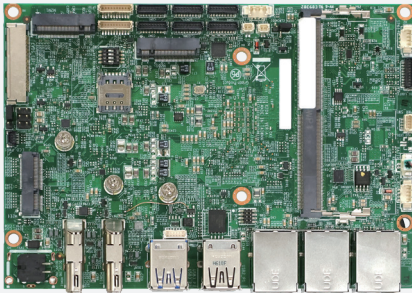




Main Features

- Intel® Core™ processor (Series 3)
- Support Intel® ISM technology
- 1 x DDR5 6400 SO-DIMM, up to 64GB
- 2 x HDMI® 1.4 output, up to 4096x2160@30Hz
- 3 x Intel® LAN port
- 2 x USB 3.2, 2 x USB 2.0
- TPM 2.0 for security
- 1 x M.2 Key B 3052/2242 for an optional 5G/LTE module
- 1 x M.2 Key E 2230 for an optional Wi-Fi module
- 1 x M.2 Key M 2242 for an optional SSD
- Support DC +12V power input

Product Overview

The X204 is a compact industrial computing platform powered by Intel® Core™ processors with a PBP 15W, delivering reliable performance and flexible connectivity for demanding edge applications. Supporting up to 64GB DDR5 memory, dual HDMI® displays, 2.5GbE LAN, and multiple USB interfaces, the X204 provides versatile system integration. With TPM 2.0 security, M.2 expansion for 5G/LTE, Wi-Fi, and SSD storage, the X204 is well-suited for industrial automation, smart manufacturing, machine vision, digital signage, and intelligent edge computing applications, offering a secure, scalable, and energy-efficient solution for diverse industrial environments.

Specifications

Processor

- Intel® Core™ 7 processor 350U, PBP 15W
- Intel® Core™ 5 processor 320U, PBP 15W
- Intel® Core™ 3 processor 304U, PBP 15W
- * Listed above support Intel® ISM technology

Memory

- 1 x DDR5 6400 SO-DIMM, non-ECC, unbuffered, up to 64GB

Integrated Graphics

- Intel® Graphics

Display Interface

- 2 x HDMI® 1.4, up to 4096x2160@30Hz

Storage

- 1 x M.2 Key M 2242 for SSD (PCIe 4.0 x1)

Expansion Slot

- 1 x M.2 Key E 2230 (PCIe 4.0 x1, USB 2.0)
 - Support a Wi-Fi module
- 1 x M.2 Key B 3052 (PCIe 4.0 x1, USB 3.2)
 - Support a 5G/LTE module

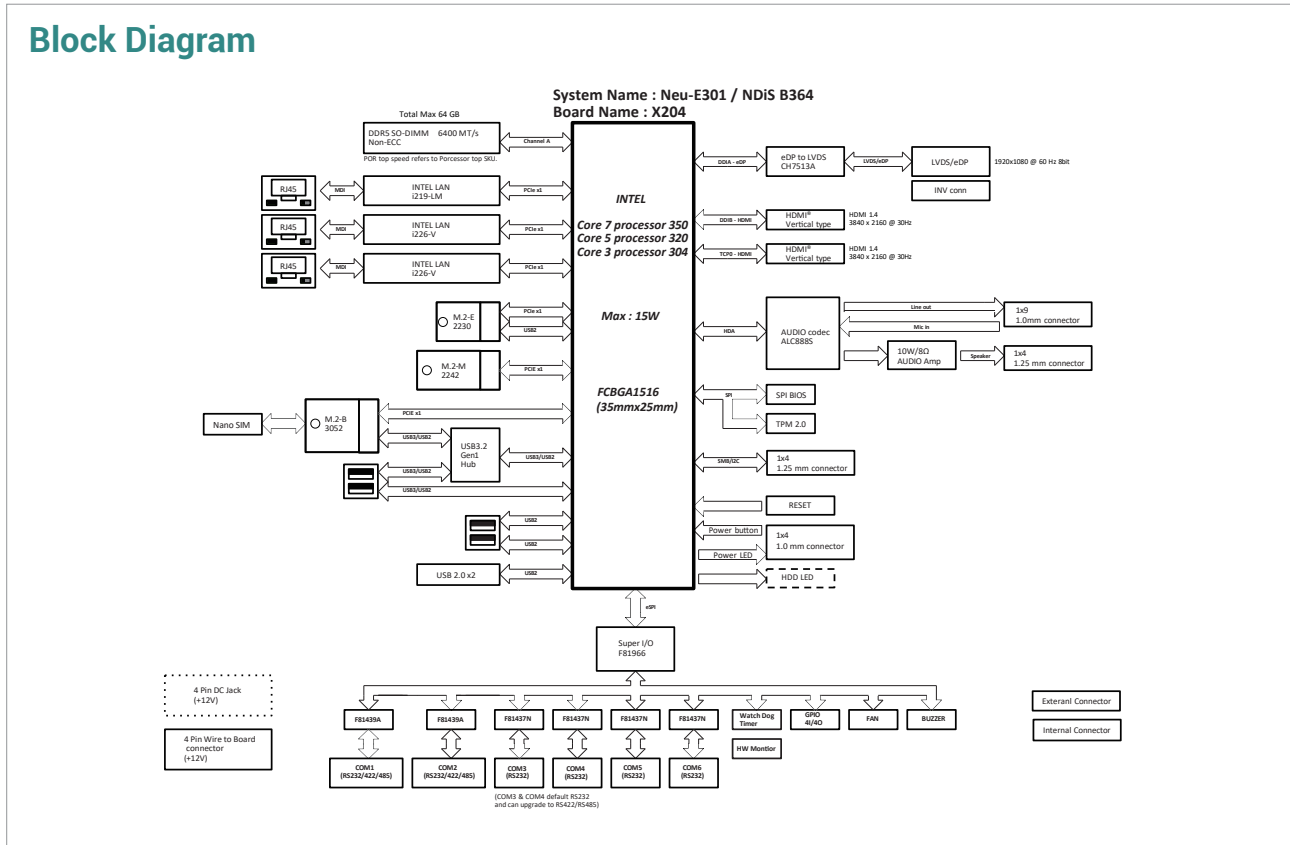
I/O Interface Side

- 1 x 4-pin connector for DC +12V power input
- 2 x HDMI® 1.4, up to 4096x2160@30Hz
- 2 x 2.5GbE RJ45 port, Intel® I226-V
- 1 x 1GbE RJ45 port, Intel® I219-LM
- 2 x USB 3.2 Gen 1x1, Type-A
- 2 x USB 2.0, Type-A

I/O Interface Internal

- 1 x eDP/LVDS connector, resolution up to 1920x1200@60Hz
- 1 x 6-pin header for USB 2.0 ports
- 2 x 9-pin (1x9) header for COM port (COM1, COM2), supports RS-232/422/485
- 4 x 9-pin (1x9) header for COM port (COM3~COM6), supports RS-232
- 1 x 10-pin header for GPIO, 4 x DI, 4 x DO
- 1 x 4-pin header for 10W/8Ω speaker out
- 1 x 9-pin header, supports mic in and line out
- 1 x 4-pin header for smart fan
- 1 x 2-pin header for reset
- 1 x 4-pin header for power button

Block Diagram



Mechanical

- Dimensions: 146mm (W) x 102mm (D) (5.7" (W) x 4.0" (D))

Power Supply

- Nominal voltage: DC +12V power input

Environment

- Temperature
 - Ambient with air flow: -20°C~70°C
 - Storage temperature: -20°C~85°C
- Relative humidity: 0%~90% (non-condensing)
- Shock protection: 50G peak acceleration, 11ms according to IEC 60068-2-27
- Vibration protection
 - Random: 2Grms@5Hz~500Hz, IEC 60068-2-64
 - Sinusoidal: 2G@5Hz~500Hz, IEC 60068-2-6

Operating System

- Windows 11
- Linux

Certifications

- CE approval (EN 50035 + EN 50032)
- FCC Class A (Part 15B)

Ordering Information

- X204-350 (P/N: 10W10X20400X0)**
Embedded board with Intel® Core™ 7 processor 350
- X204-320 (P/N: 10W10X20401X0)**
Embedded board with Intel® Core™ 5 processor 320
- X204-304 (P/N: 10W10X20402X0)**
Embedded board with Intel® Core™ 3 processor 304