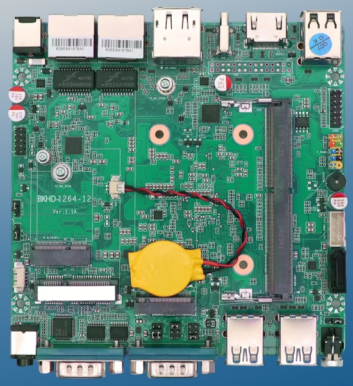


# 1264-12-2L

## Product Features

*BKHD-1264-12-2L is a compact embedded industrial motherboard based on the Intel Processor N-series platform, designed for industrial control, IoT gateways, digital signage, embedded terminals, and edge computing applications. It integrates low-power processing, dual Gigabit Ethernet, multi-display output, serial communication, and flexible SATA/M.2 storage in a compact form factor. With DDR4 SO-DIMM memory, USB-C support, optional eDP, and rich industrial I/O interfaces, it is well suited for OEM/ODM projects and long-term embedded system deployment.*

## Application Scenarios

- Embedded Terminal
- IoT Gateway
- Industrial Automation
- Digital Signage

| | | |
|---|---|---|
| Processor | Product Collection | Intel Processor N-series |
| | Sockets Supported | FCBGA1264 |
| Memory specifications | Memory type | DDR4 SO-DIMM |
| | Maximum capacity | 16GB |
| | Maximum frequency | 3200 MT/s |
| Storage specifications | SATA | 1*SATA 3.0 (6Gb/s) |
| | M.2 | 1*M.2 Key-B+M |
| Extension interface | mPCIe | 1*mPCIe |
| | M.2 | 1*M.2 Key-E (CNVi) |
| Display functions | Port | 1*DP/2*HD/1*USB-C |
| | Chip | Intel UHD Graphics |
| Backplane I/O | Ethernet | 2*RJ45 |
| | COM | 2*DB9 COM |
| | Power supply | 1*Jack DC 5.5/2.5mm |
| | Display | 1*DP/2*HD/1*USB-C |
| | USB | 4*USB-A 3.0, 2*USB-A 2.0, 1*USB-C |
| | Audio | 1*Jack Audio |
| | Button | 1*Power Button |
| Onboard I/O | SATA | 1*SATA Data connector/1*SATA Power socket |
| | SIM | 1*SIM Card solts |
| | Fan | 1*CPU fan power socket |
| | Pins | 1*F_PANEL |
| | | 1*J_GPIO |
| | | 1*J_TPM |


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| | | |
|---|---|---|
| | | 1*eDP (Optional) |
| Power supply mode | DC | 12V |
| Motherboard size | Specification | 121.6*121.6 (mm) |
| Work Environment | Temperature | -20~55℃ |
| | Humidity | 5%~90% (Relative humidity, no condensation) |


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# H30S-1264-2L

## Product Features

*H30S-1264-2L is a compact fanless embedded computer based on the Intel Processor N-series platform, designed for industrial control, IoT gateways, digital signage, commercial terminals, and lightweight edge computing applications. It integrates dual Gigabit Ethernet, multi-display output, serial communication, USB-C, M.2 storage, and wireless expansion in a compact chassis. With passive cooling, low-power operation, and flexible I/O configuration, it is ideal for long-term deployment in industrial cabinets, smart terminals, automation systems, and embedded commercial devices.*

## Application Scenarios

- Embedded Terminal
- IoT Gateway
- Industrial Automation
- Digital Signage

| | | | |
|---|---|---|---|
| Processor | Product Collection | Intel Processor N-series | |
| | Sockets Supported | FCBGA1264 | |
| Memory specifications | Memory type | DDR4 SO-DIMM | |
| | Maximum capacity | 16GB | |
| | Maximum frequency | 3200 MT/s | |
| Storage specifications | SATA | 1*SATA 3.0 (6Gb/s) | |
| | M.2 | 1*M.2 Key-B+M | |
| Network features | Ethernet | 2*1GbE | |
| | Controller | 2*Realtek RTL8111H | |
| Interface | Front Panel | Power | 1*Jack DC_IN |
| | | Ethernet | 2*RJ45 |
| | | Display | 1*DP/2*HD |
| | | USB | 1*USB-C, 2*USB-A 2.0 |
| | Back Panel | Button | 1*Start or Restart |
| | | USB | 4*USB-A 3.0 |
| | | Serial port | 2*DB9 COM |
| | | Audio | 1*Jack Audio |
| | | Antenna | 2*Reserved |
| Extension interface | mPCIe | 1*mPCIe | |
| | M.2 | 1*M.2 Key-E (CNVi) | |
| Cooling Method | Passive Cooling, Fanless (Need air flow) | | |
| System Specifications | Chassis Size | 138*126*48 (mm) | |
| | Weight | Equipment Weight 0.75 KG; Package Weight 1.25 KG (including accessories) | |
| Power Mode | DC | 12V 4A or Higher | |
| Work Environment | Temperature | 0~50℃ | |
| | Humidity | 5%~90% (Relative humidity, no condensation) | |


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# G31F-1264-2L

## Product Features

*G31F-1264-2L is a compact industrial computer based on the Intel Processor N-series platform, designed for industrial control, IoT gateways, HMI systems, digital signage, commercial terminals, and lightweight edge computing applications. It integrates dual Gigabit Ethernet, multi-display output, serial communication, USB-C, M.2 storage, and wireless expansion in a compact chassis. With active cooling and one smart chassis fan, it delivers improved thermal performance for long-running workloads, making it suitable for stable deployment in compact industrial and commercial environments.*

## Application Scenarios

- Embedded Terminal
- IoT Gateway
- Industrial Automation
- Digital Signage

| | | | |
|---|---|---|---|
| Processor | Product Collection | Intel Processor N-series | |
| | Sockets Supported | FCBGA1264 | |
| Memory specifications | Memory type | DDR4 SO-DIMM | |
| | Maximum capacity | 16GB | |
| | Maximum frequency | 3200 MT/s | |
| Storage specifications | SATA | 1*SATA 3.0 (6Gb/s) | |
| | M.2 | 1*M.2 Key-B+M | |
| Network features | Ethernet | 2*1GbE | |
| | Controller | 2*Realtek RTL8111H | |
| Interface | Front Panel | Power | 1*Jack DC_IN |
| | | Ethernet | 2*RJ45 |
| | | Display | 1*DP/2*HD |
| | | USB | 1*USB-C, 2*USB-A 2.0 |
| | Back Panel | Button | 1*Start or Restart |
| | | USB | 4*USB-A 3.0 |
| | | Serial port | 2*DB9 COM |
| | | Audio | 1*Jack Audio |
| | | Antenna | 2*Reserved |
| Extension interface | mPCIe | 1*mPCIe | |
| | M.2 | 1*M.2 Key-E (CNVi) | |
| Cooling Method | Active, Cooling Fan, 1*Smart Chassis fan | | |
| System Specifications | Chassis Size | 178*126*56 (mm) | |
| | Weight | Equipment Weight 1.25 KG; Package Weight 1.95 KG (including accessories) | |
| Power Mode | DC | 12V 4A or Higher | |
| Work Environment | Temperature | 0~50℃ | |
| | Humidity | 5%~90% (Relative humidity, no condensation) | |


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