



# 1090NP-20-6L

## Product Features

The 1090NP-20-6LAN is a high-performance industrial motherboard built on the Intel Celeron J-series and Pentium Silver processor platform. It integrates 6x 2.5GbE Ethernet ports, dual-channel DDR4 memory support, rich expansion interfaces, and wide-temperature industrial reliability. Designed for applications requiring high network density, large bandwidth throughput, and stable long-term operation, it is ideal for advanced software routers, network security appliances, industrial gateways, and edge computing systems.

## Application Scenarios



Cybersecurity



Industrial IoT Gateway



Edge Computing



Embedded Server

|                        |                    |   |                 |
|------------------------|--------------------|---|-----------------|
| Processor              | Product Collection | Intel Celeron Processor J Series, Intel Pentium Silver Processor Series |                 |
|                        | Sockets Supported  | FCBGA1090   |                 |
| Memory specifications  | Memory Type        | DDR4 SO-DIMM  |                 |
|                        | Maximum Capacity   | 2x 8GB  |                 |
|                        | Maximum Frequency  | 2400 MHz  |                 |
| Storage specifications | SATA               | 1*SATA 6Gb/s  |                 |
|                        | mSATA              | 1*mSATA   |                 |
| Network features       | Ethernet           | 6*2.5GbE  |                 |
|                        | Controller         | 6*Intel I226V   |                 |
| Extension interface    | mPCIe              | 1*mPCIe (USB2.0 signal)   |                 |
| Display functions      | Pins               | 1*VGA/1*HD  |                 |
|                        | Chip               | Intel UHD Graphics  |                 |
| Backplane I/O          | Ethernet           | 6*RJ45  |                 |
|                        | USB                | 2*USB-A 3.0   |                 |
|                        | Console            | 1*RJ45 COM  |                 |
|                        | Button             | 1*Power button, 1*Reset button  |                 |
| Onboard I/O            | Power supply       | 1*Jack DC 5.5/2.5mm   |                 |
|                        | SATA               | 1*SATA Data connector, 1*SATA Power socket                              |                 |
|                        | Display            | 1*J_VGA/1*J_HDMI  |                 |
|                        | SIM                | 1*SIM Card slots  |                 |
|                        | Fan                | 1*CPU_FAN, 1*SYS_FAN  |                 |
|                        | Pins               |   | 1*F_PANEL       |
|                        |                    |   | 1*J_COM (RS232) |

|                   |               |   |
|-------------------|---------------|---|
|                   |               | 2*F_USB 2.0 (can expand 4x USB2.0 ports)    |
|                   |               | 1*J_P/S 2                                   |
| Power supply mode | Power         | 1*ATX 12V 4-pin Connector or 1*Jack DC 12V  |
| Motherboard size  | Specification | 180*200 (mm)                                |
| Work Environment  | Temperature   | -20~55°C (Operating); -20°C~75°C (Storage)  |
|                   | Humidity      | 0%~95% (Relative humidity, no condensation) |



# OTS-1090NP -6L

## Product Features

The OTS-1090NP-6L is a high-performance desktop network appliance based on the Intel Celeron J-series / Pentium Silver platform. It features 6x 2.5GbE ports, dual-channel DDR4 memory, and active cooling for stable, long-term operation. Designed for high-density networking and flexible desktop deployment, it is ideal for software routing, network security, industrial gateways, and edge computing in enterprise, home, and industrial environments.

## Application Scenarios



Cybersecurity



Network Convergence



Edge Computing



Industrial Automation

|                       |                           |  |                      |
|-----------------------|---------------------------|--|----------------------|
| Processor             | Product Collection        | Intel Celeron Processor J Series, Intel Pentium Silver Processor Series  |                      |
|                       | Sockets Supported         | FCBGA1090  |                      |
|                       | Memory Type               | DDR4 SO-DIMM   |                      |
| Memory specifications | Maximum Capacity          | 2x 8GB   |                      |
|                       | Maximum Frequency         | 2400 MHz   |                      |
|                       | Storage specifications    | SATA   | 1*SATA 6Gb/s         |
| mSATA                 |                           | 1*mSATA  |                      |
| Extension interface   | mPCIe                     | 1*mPCIe (USB2.0 signal)  |                      |
| Interface             | Front Panel               | Ethernet   | 6*RJ45 LAN           |
|                       |                           | USB  | 2*USB-A 3.0          |
|                       | Back Panel                | Console  | 1*RJ45 COM           |
|                       |                           | Display  | 1*VGA/1*HD (Reserve) |
|                       | Power supply              | Antenna  | 2 Groups (Reserve)   |
|                       |                           | Power supply   | 1*Jack DC 5.5/2.5mm  |
| Cooling Method        | Active Cooling, 1*CPU Fan |  |                      |
| System Specifications | Chassis Size              | 210*200*45 (mm)  |                      |
|                       | Weight                    | Equipment Weight 1.25 KG; Package Weight 1.65 KG (including accessories) |                      |
| Power Mode            | DC                        | 12V 4A or Higher   |                      |
| Work Environment      | Temperature               | 0~50°C   |                      |
|                       | Humidity                  | 5%~90% (Relative humidity, no condensation)                              |                      |

# 1U-1090NP -6L



## Product Features

The 1U-1090NP-6L is a 1U rackmount network security appliance built on the Intel Celeron J-series / Pentium Silver platform. It features six 2.5GbE ports, dual-channel DDR4 memory, a built-in wide-range AC power supply, and an active cooling system for reliable long-term operation.

Designed for high-density networking and centralized rack deployment, it is ideal for enterprise firewalls, UTM, VPN gateways, SD-WAN, and industrial security applications in data centers, server rooms, and telecom edge environments.

## Application Scenarios



Cybersecurity



Network Convergence



Lightweight Server



Industrial Automation

|                        |  |  |                      |  |
|------------------------|--|--|----------------------|--|
| Processor              | Product Collection                             | Intel Celeron Processor J Series, Intel Pentium Silver Processor Series  |                      |  |
|                        | Sockets Supported                              | FCBGA1090  |                      |  |
| Memory specifications  | Memory Type                                    | DDR4 SO-DIMM   |                      |  |
|                        | Maximum Capacity                               | 2x 8GB   |                      |  |
|                        | Maximum Frequency                              | 2400 MHz   |                      |  |
| Storage specifications | SATA   | 1*SATA 6Gb/s   |                      |  |
|                        | mSATA  | 1*mSATA  |                      |  |
| Extension interface    | mPCIe  | 1*mPCIe (USB2.0 signal)  |                      |  |
| Interface              | Front Panel                                    | Ethernet   | 6*RJ45               |  |
|                        |  | USB  | 2*USB-A 3.0          |  |
|                        | Back Panel                                     | Console  | 1*RJ45 COM           |  |
|                        |  | Display  | 1*VGA/1*HD (Reserve) |  |
|                        |  | Antenna  | 2 Groups (Reserve)   |  |
| Power                  | 1*AC power socket                              |  |                      |  |
| Cooling Method         | Active Cooling, 1*CPU Fan/2*Chassis Fan        |  |                      |  |
| System Specifications  | Chassis Size                                   | 440*255*45 (mm)  |                      |  |
|                        | Weight   | Equipment Weight 3.80 KG; Package Weight 4.50 KG (including accessories) |                      |  |
| Power Mode             | Input: 85V~264V AC 47~63 Hz, Output: DC 12V 6A |  |                      |  |
| Work Environment       | Temperature                                    | 0~50°C   |                      |  |
|                        | Humidity                                       | 5%~90% (Relative humidity, no condensation)                              |                      |  |

# 1U- DPS-1090NP -6L



## Product Features

The 1U-DPS-1090NP-6L is a 1U rackmount network security appliance with dual redundant power supplies, built on the Intel Celeron J-series / Pentium Silver platform. It features 6x 2.5GbE ports, dual-channel DDR4 memory, modular dual power redundancy, and active cooling for stable 24/7 operation. Designed for mission-critical environments requiring high network availability, power redundancy, and dense connectivity, it is ideal for critical infrastructure, data center perimeters, telecom edge nodes, and industrial control systems.

## Application Scenarios



Cybersecurity



Network Convergence



Lightweight Server



Industrial Automation

|                        |   |  |             |
|------------------------|---|--|-------------|
| Processor              | Product Collection  | Intel Celeron Processor J Series, Intel Pentium Silver Processor Series  |             |
|                        | Sockets Supported   | FCBGA1090  |             |
| Memory specifications  | Memory Type   | DDR4 SO-DIMM   |             |
|                        | Maximum Capacity  | 2x 8GB   |             |
|                        | Maximum Frequency   | 2400 MHz   |             |
| Storage specifications | SATA  | 1*SATA 6Gb/s   |             |
|                        | mSATA   | 1*mSATA  |             |
| Extension interface    | mPCIe   | 1*mPCIe (USB2.0 signal)  |             |
|                        | Interface   | Ethernet   | 6*RJ45      |
| Front Panel            |   | USB  | 2*USB-A 3.0 |
| Console                |   | 1*RJ45 COM   |             |
| Display                |   | 1*VGA/1*HD (Reserve)   |             |
| Back Panel             | Antenna   | 2 Groups (Reserve)   |             |
|                        | Power   | 2*AC power socket  |             |
| Cooling Method         | Active Cooling, 1*CPU Fan/2*Chassis Fan                                 |  |             |
| System Specifications  | Chassis Size  | 440*410*45 (mm)  |             |
|                        | Weight  | Equipment Weight 4.85 KG; Package Weight 6.50 KG (including accessories) |             |
| Power Mode             | Modular Dual power supply, Input: 100V~240V AC 50/60Hz, Output: 75W MAX |  |             |
| Work Environment       | Temperature   | 0~50℃  |             |
|                        | Humidity  | 5%~90% (Relative humidity, no condensation)                              |             |