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› Gustard N18 HiFi Audio Network Switch User Manual

AOSHIDA N18-Black

Gustard N18 HiFi Audio Network Switch User Manual

Model: N18-Black | Brand: AOSHIDA

1. PRODUCT OVERVIEW

The Gustard N18 is a high-performance HiFi audio network switch designed to enhance your audio streaming experience. It features advanced power management and versatile connectivity options to deliver cleaner sound.



Front view of the Gustard N18 HiFi Audio Network Switch in black.



Rear view of the Gustard N18, showing the SFP, LAN ports, and power input.

Key Features:

- **Superior Sound Quality:** Built-in power supply and multi-stage filtering for lower ripple and cleaner sound.
- **Versatile Connectivity:** 10/100/1000M adaptive ethernet interface and pluggable SFP optical converter module.
- **Optimal Power Management:** High current low voltage drop rectifier bridge, multi-way power supply, and multi-stage voltage regulators.
- **Dual Device Design:** Unique internal cascade allows one unit to be used as two.

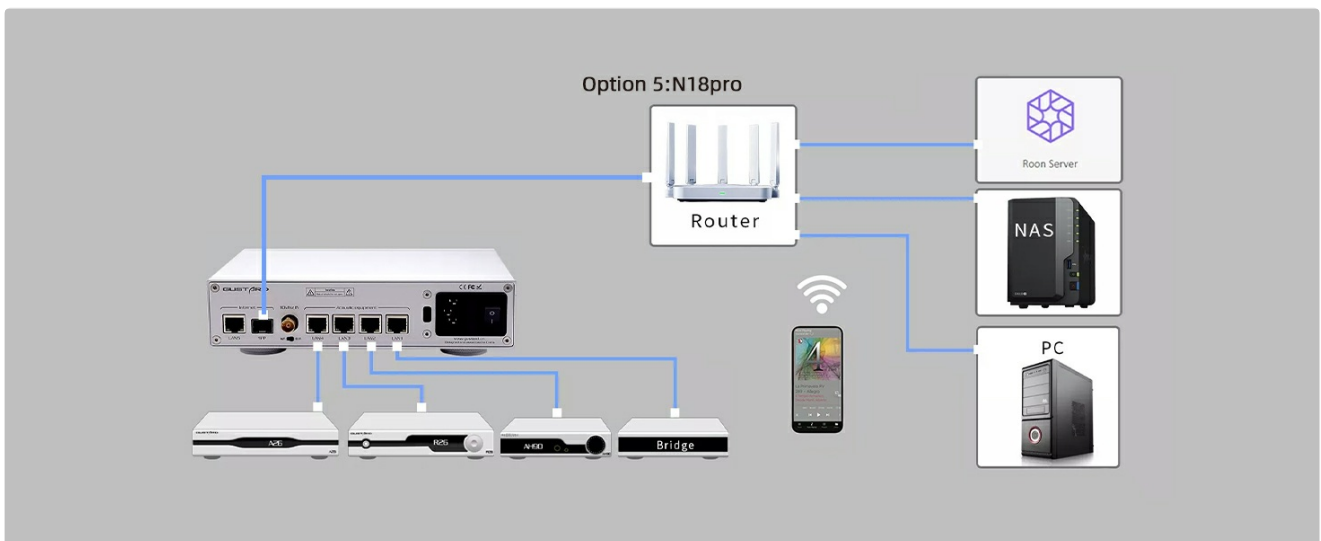


Diagram highlighting key features of the Gustard N18 HiFi Audio Network Switch, including its architecture and power supply.

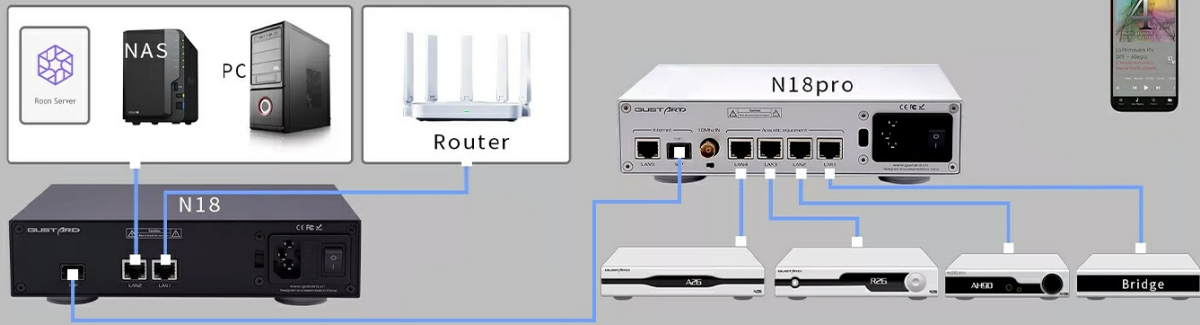
2. SETUP AND CONNECTIONS

The Gustard N18 offers flexible connectivity options to integrate seamlessly into your audio system. Ensure all connections are secure before powering on the device.

Port Identification:

Different connectivity options for switches

Option 1: N18+N18pro (recommended option)



Labeled back ports of the Gustard N18, showing SFP, Ethernet (LAN1, LAN2), AC power input, fuse, voltage selection, and power switch.

- **SFP Port:** For connecting an SFP optical converter module, providing optoelectronic isolation.
- **LAN Ports (LAN1, LAN2):** 10/100/1000M adaptive Ethernet interfaces for network devices.
- **AC Power Input:** Connect the provided power cable.
- **Power Switch:** To turn the unit on or off.
- **Voltage Selection:** Ensure this is set correctly for your region (e.g., 115V or 230V).

Connectivity Options:

The N18 can be integrated into various network configurations. Below are common setup options:

- 10/100/1000M adaptive ethernet interface
- Dual device design with internal cascade
- External 10Mhz clock
- Built-in power, multi-stage filtering
Lower ripple, cleaner sound
- High current low voltage drop rectifier bridge
- Multi-way power supply, to avoid interference.
Multi-stage voltage regulators, cleaner power.

HIFI Audio Network Switch

HIFI architecture, independent design, optoelectronic isolation, built-in power supply.

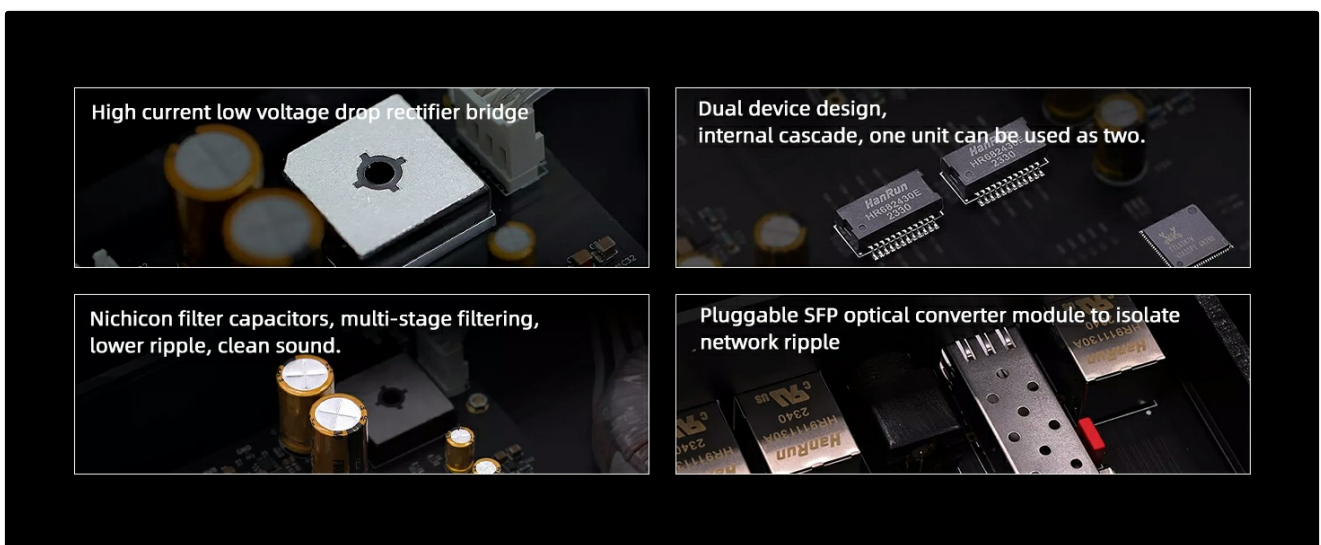
N18
N18 pro

Option 1: N18 + N18pro (Recommended) - Connects N18 to router, and N18pro to N18, then to audio devices. This setup provides enhanced isolation.

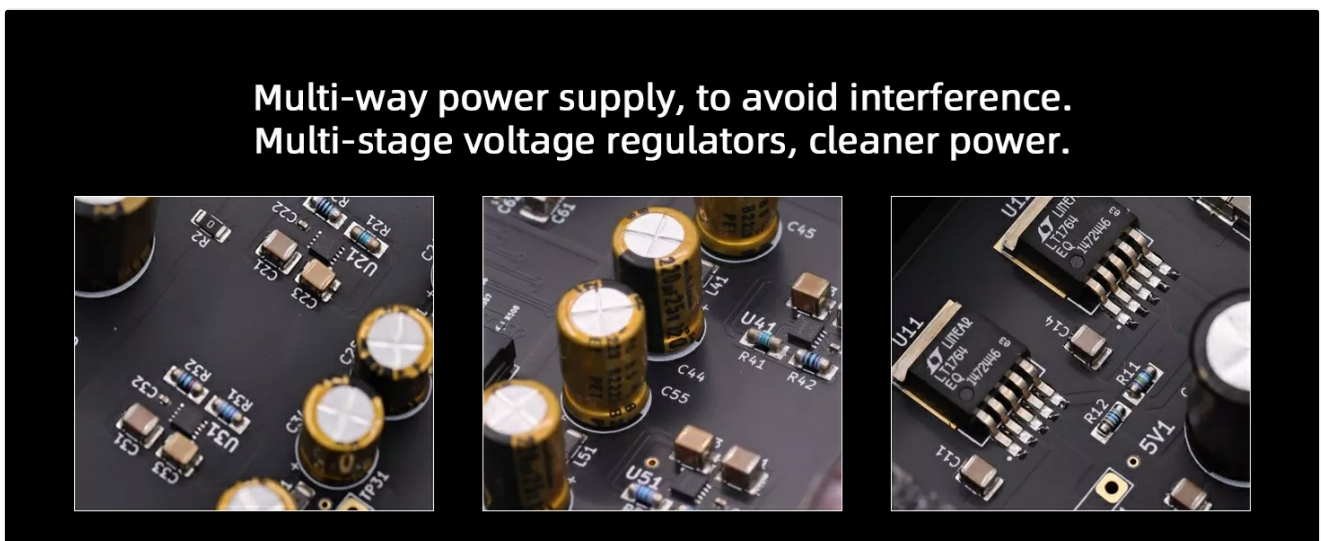


The suite of switches is optically isolated by the SFP optoelectronic converter module.

Option 2: N18pro + N18pro - Utilizes two N18pro units for comprehensive network management and audio device connectivity.



Option 3: N18 + N18 - Connects two N18 units for expanded network switching capabilities.



Option 4: Single N18 - Basic setup where the N18 connects directly to your router and audio devices.

An external 10MHz clock gives the cleaner sound and more analog sense.

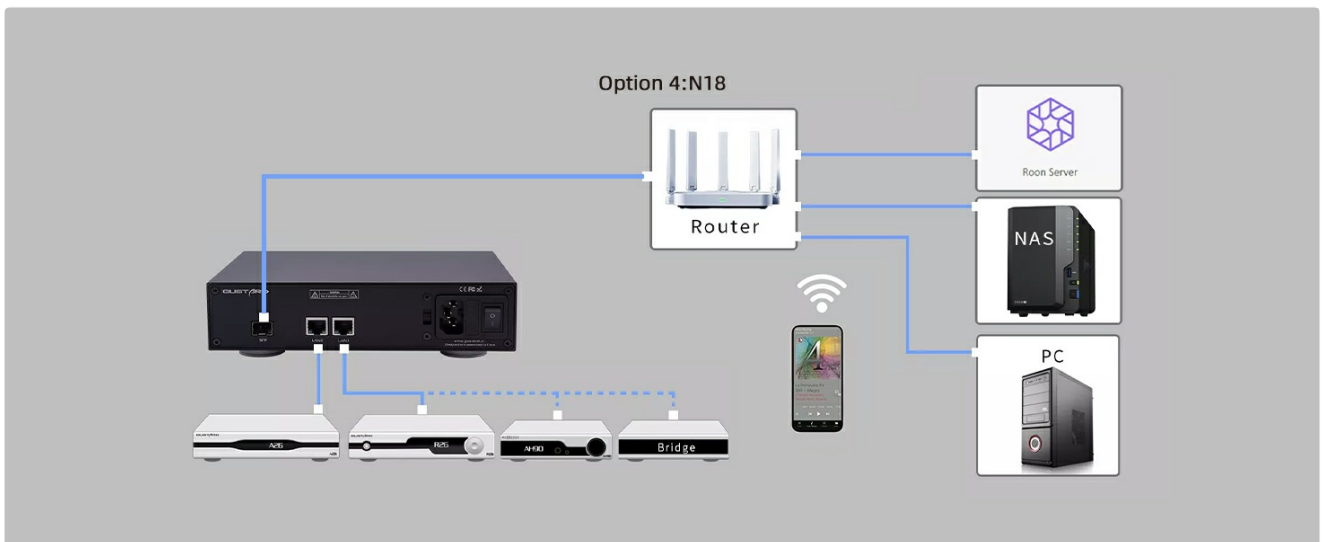


Customized C2 clock cables are available for better performance (purchase separately)



Option 5: Single N18pro - Setup using only the N18pro for network and audio connections.

For optimal performance, it is recommended to use Gustard's optical modules when utilizing the SFP interface.



The SFP optoelectronic converter module provides optical isolation for cleaner signal transmission. Accessories like SFP modules and LC-LC Fiber are sold separately.

	N18	N18pro	Suit N18pro+N18
SFP	✓	✓	✓
optoelectronic isolation	✗	✗	✓
LAN	2	4+1	6+1
10/100/1000M adaptive ethernet interface	✓	✓	✓
External 10Mhz clock	✗	✓	✓

Customized C2 clock cables are available separately for improved performance, providing a cleaner sound and more analog sense.

3. OPERATING INSTRUCTIONS

Once the Gustard N18 is properly connected, operating it is straightforward. The device is designed for plug-and-play functionality within your network.

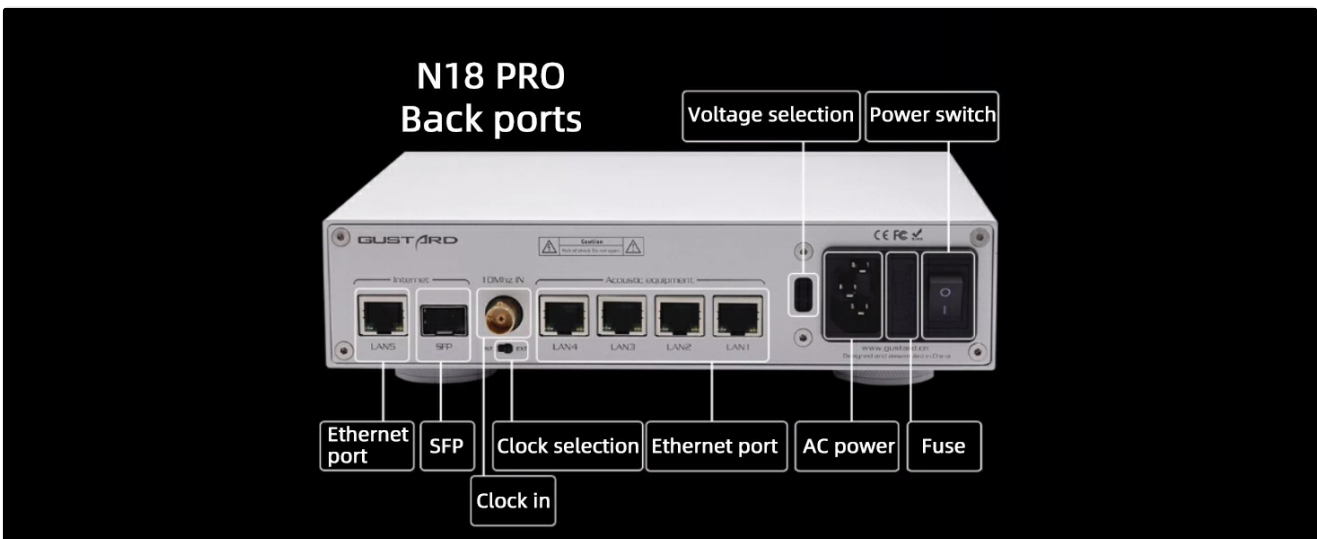
Powering On/Off:

1. Ensure the voltage selection switch on the rear panel is set to the correct voltage for your region (115V or 230V).
2. Connect the AC power cable to the unit and a wall outlet.
3. Flip the power switch on the rear panel to the 'ON' position. The unit will power up.
4. To power off, flip the power switch to the 'OFF' position.

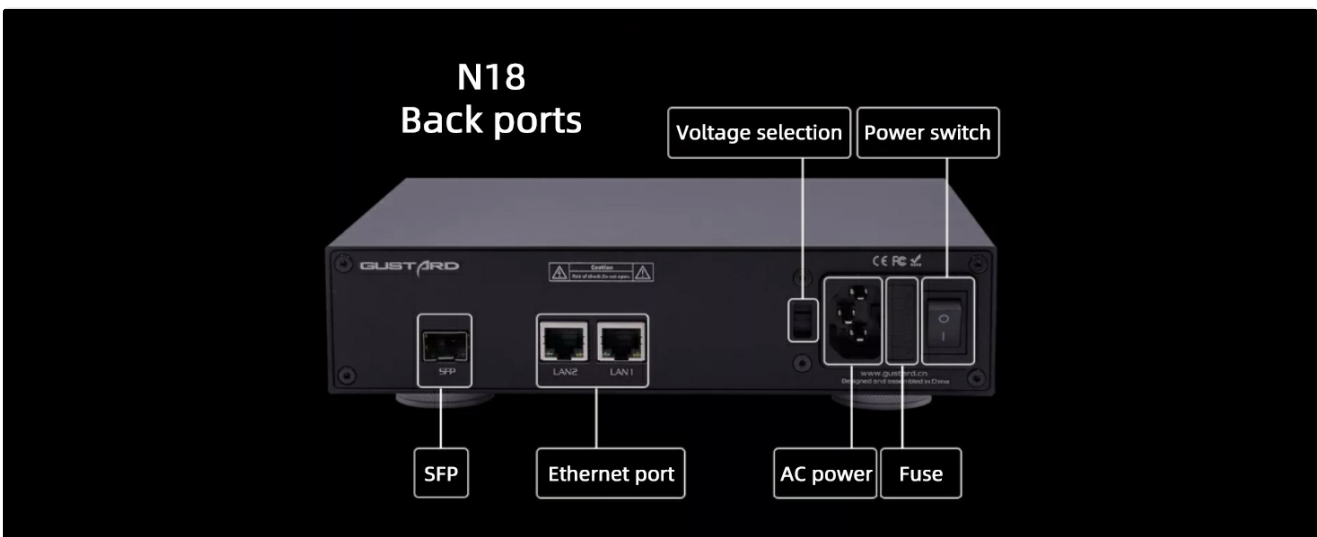
Network Operation:

The N18 functions as a transparent network switch. Once connected, it will automatically manage data flow between your network devices and audio components, providing a cleaner signal path for audio streaming.

The internal design, including the high current low voltage drop rectifier bridge, Nichicon filter capacitors, and multi-stage voltage regulators, works to minimize interference and provide stable, clean power for optimal audio performance.



Detailed view of the Gustard N18's internal components, including the rectifier bridge, filter capacitors, and SFP module for network ripple isolation.



Close-up of the multi-way power supply and multi-stage voltage regulators designed to prevent interference and deliver cleaner power.

4. MAINTENANCE

To ensure the longevity and optimal performance of your Gustard N18, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Avoid using liquid cleaners or abrasive materials, which may damage the finish.
- **Ventilation:** Ensure the unit has adequate ventilation. Do not block any ventilation openings.
- **Environment:** Keep the unit in a cool, dry place, away from direct sunlight, heat sources, and excessive dust or moisture.
- **Connections:** Periodically check all cable connections to ensure they are secure.

5. TROUBLESHOOTING

If you encounter issues with your Gustard N18, please refer to the following common troubleshooting steps:

- **No Power:**
 - Check if the power cable is securely connected to both the unit and the power outlet.
 - Ensure the power switch on the rear panel is in the 'ON' position.
 - Verify the voltage selection switch is set correctly for your region.
 - Check the fuse on the rear panel. If blown, replace it with a fuse of the same type and rating.
- **No Network Connectivity:**
 - Ensure Ethernet cables are securely connected to both the N18 and your network devices/router.
 - If using the SFP port, ensure the SFP module is correctly inserted and the fiber optic cable is properly connected.
 - Restart the N18 by cycling the power switch.
 - Check the status indicators on your connected devices and the N18 (if any) for network activity.
- **Poor Audio Quality:**
 - Ensure all audio components connected to the network are properly configured.
 - Verify that the N18 is receiving clean power and is not subject to electrical interference.
 - Consider using high-quality Ethernet and optical cables.

If the issue persists after following these steps, please contact AOSHIDA customer support for further assistance.

6. SPECIFICATIONS

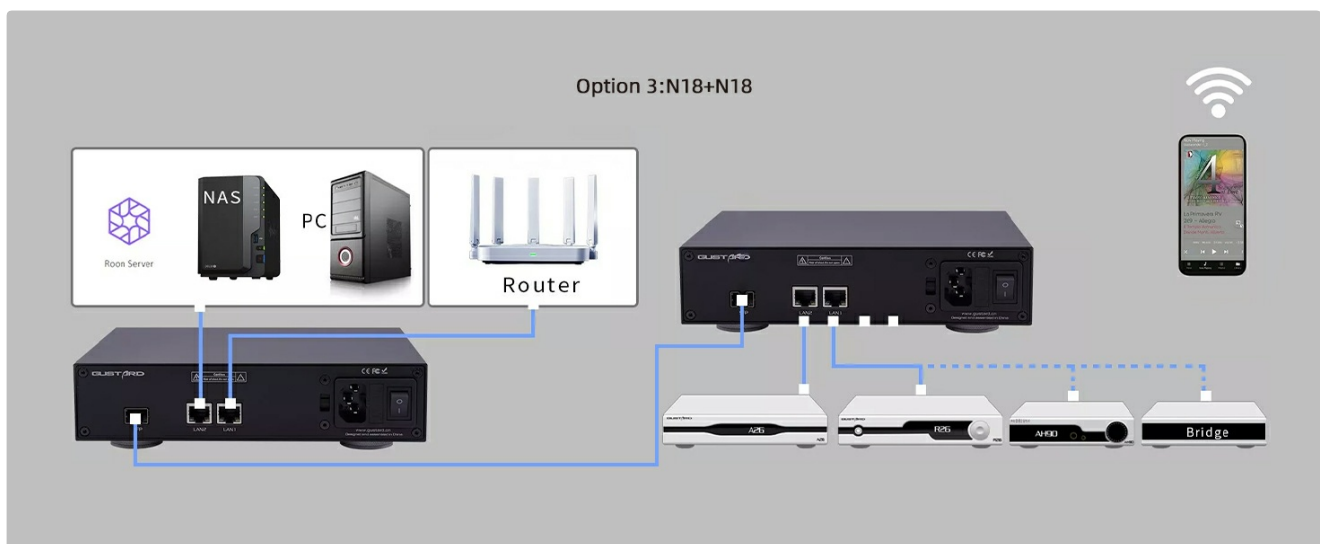
Detailed technical specifications for the Gustard N18 HiFi Audio Network Switch:



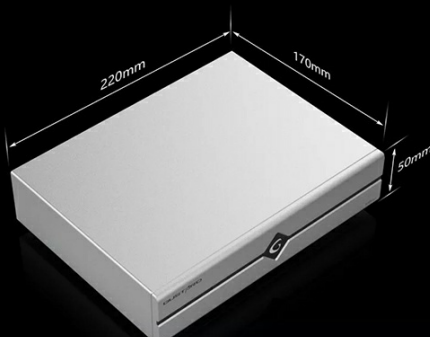
Dimensions of the Gustard N18: 220mm (width) x 170mm (depth) x 50mm (height).

Gustard N18 Specifications

Feature	Detail
Product Dimensions	8.66 x 6.69 x 1.97 inches (220 x 170 x 50 mm)
Item Weight	3.3 pounds (1.5 kg)
Manufacturer	Gustard
Model Number	N18-Black
Color	Black
Compatible Devices	Desktop, Laptop, Printer, Gaming console
Number of Ports	3 (1 SFP, 2 LAN)
Ethernet Interface	10/100/1000M adaptive
Power Consumption	<10W
AC Power	115V/230V 50/60Hz



Comparison of features between Gustard N18, N18pro, and the combined N18pro+N18 suit.



Specifications

- N18 ports: 2*10/100/1000M adaptive ethernet interface, 1*SFP
- N18pro ports: 1*SFP +1*10/100/1000M adaptive ethernet interface
- 4*10/100/1000M adaptive ethernet interfaces, 1*10M BNC
- SFP: Support GPON/EPON fiber modem, SFP RJ45 extension port, SFP fiber module
- Ethernet Protocol:
 - 10Base-T
 - 100Base-T
 - 1000Base-T
 - 1000Base-X
- 10M BNC input: input impedance 50 Ohm, 0dBm-20dBm
- AC Power: AC 115V/230V 50/60Hz
- Power consumption: <10W
- Dimensions: W220mm*H50mm*D170mm (excluding protruding parts)
- Packing list: switch *1 power cable *1
- Package size: W285mm*H85mm*D270mm
- Weight with package: 2.5KG

Comprehensive specifications including SFP support, Ethernet protocols, and package details.

7. WARRANTY AND SUPPORT

The Gustard N18 is manufactured by Gustard and sold by AOSHIDA. For warranty information and customer support, please refer to the following:

- **Manufacturer:** Gustard
- **Seller:** Aoshida Audio-US ([View Seller Information](#))
- **Protection Plans:** Extended protection plans are available for purchase separately. These plans offer additional coverage beyond the standard manufacturer's warranty.
 - 2-Year Protection Plan: \$36.99
 - 3-Year Protection Plan: \$48.99
 - Complete Protect (monthly): \$16.99/month
- **Returns:** This product is eligible for a 30-day refund/replacement return policy.

For technical support or warranty claims, please contact the seller, Aoshida Audio-US, through the Amazon platform or refer to the documentation included with your purchase.