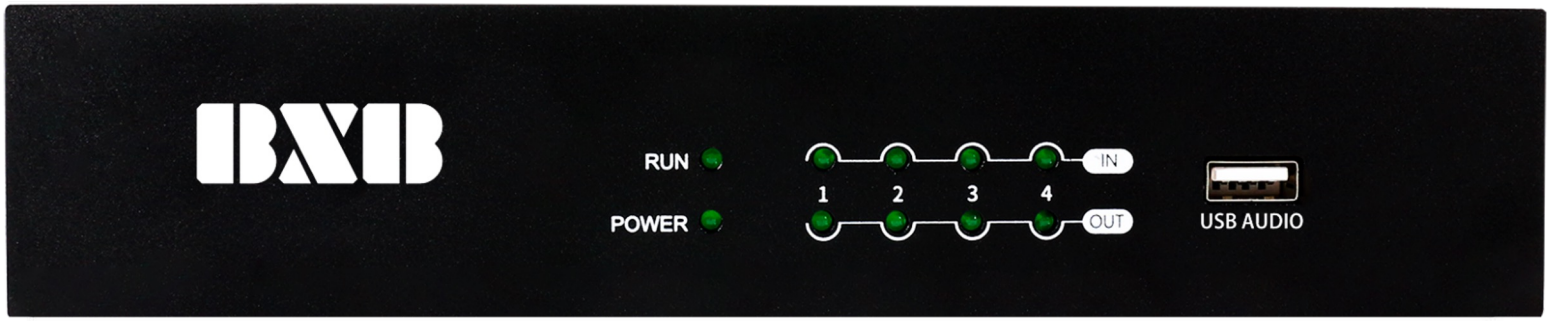
DAM-0404/DAM-0404D

4x4 Digital Audio Matrix Processor

User Manual



Date: March, 2024

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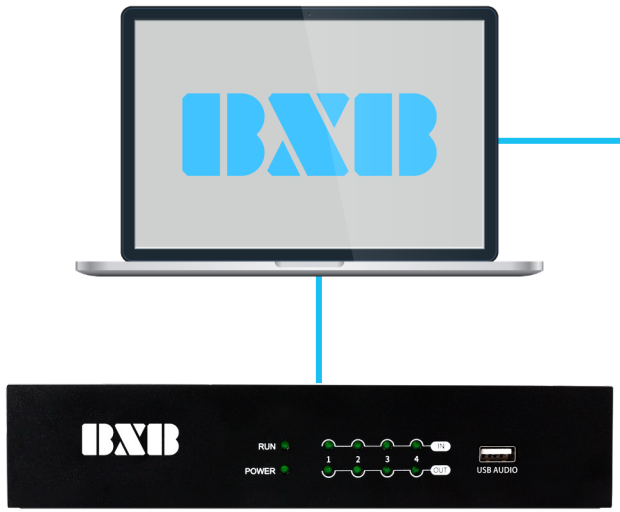
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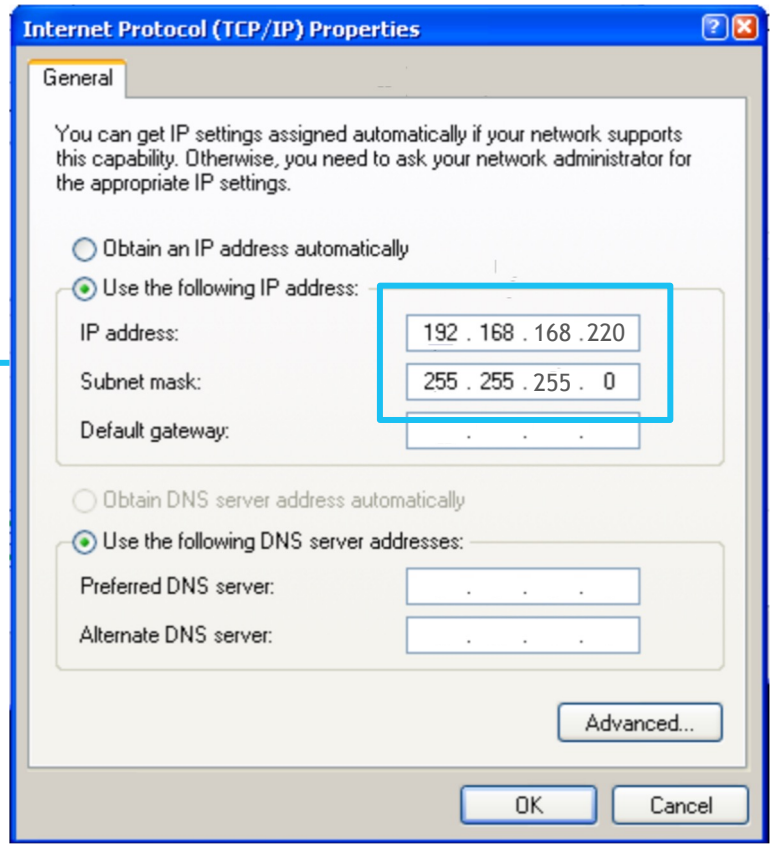
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Safety Instruction

1. Read the instruction manual carefully before installing and using this unit.
2. Please do not use any spare parts without the recommendation of your dealer.
3. Use the fixing accessories offered by BXB. If the system is broken due to the improper fixing, BXB would not bear the responsibility for compensation.
4. Do not use any three-hole plugs or extension cords as this would result in fire or short circuit.
5. Make sure the power cord has been fixed properly.
6. Do not use any three-hole plugs or extension cords as this would result in fireor short circuit.
7. Do not stuff anything or spill liquid of any kind onto or into this unit.
8. Contact maintenance technicians if the conditions below occur:
    a. Power cord or plug is damaged.
    b. Liquid has been spilled into this unit.
    c. The product does not work normally under normal operating conditions.
    d. The unit has been dropped or the cover has been damaged.
    e. The function cannot work completely.
9. To reduce the risk of damage caused by lightning strike, it is essential that allcables must be bonded well to the same grounding point.
10. Install this unit carefully. Impacting and fierce shaking should be avoided.
11. Do not disassemble or remodel this unit:
    a. High voltage and sensitive electrical circuit are inside of the unit. Do not disassemble it to prevent electric shock. If needed, please ask for helpfrom the qualified technicians.
    b. The specification of any replaced spare part should be validated by manufacturer, or it may cause fire and short circuit.
12. Please do not block the ventilation holes on the casing. Blocking the ventilation holes may cause the conference host to malfunction due to excessive operating temperature.
13. Do not use this unit in the environment with improper temperature, moisture, and power level to avoid component damage. The adequate operation temperature is 0°C-40°C; storage temperature -15°C-55°C; relative humidity 45%-70% (non-condensing); atmospheric pressure 86KPa-106KPa; power input AC 90V-264V.
14. Do not expose the apparatus to rain and moisture. Please put it at a dry location to avoid any damage of the inside components. Adequate coverage is requisite if the unit is used outside.
15. Do not clean this unit and its accessories with liquid or chemical detergent. Just use a damp cloth for cleaning.
16. Do not switch on/off the power rapidly no matter it’s operating or off. It can avoid the operation problem from the sensitive electronic circuit.

Device Connection Diagram



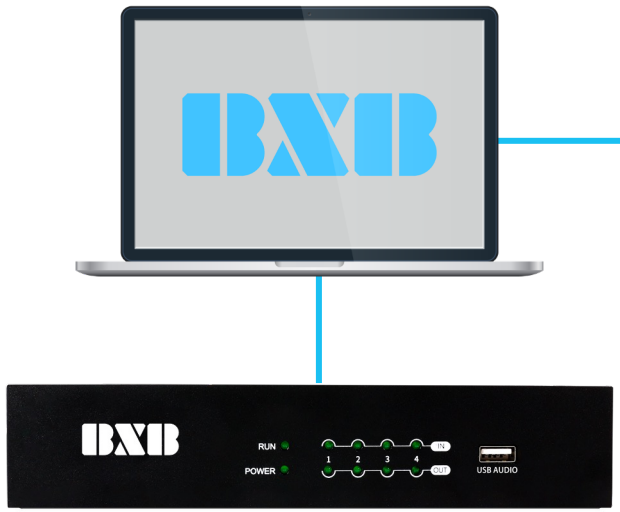


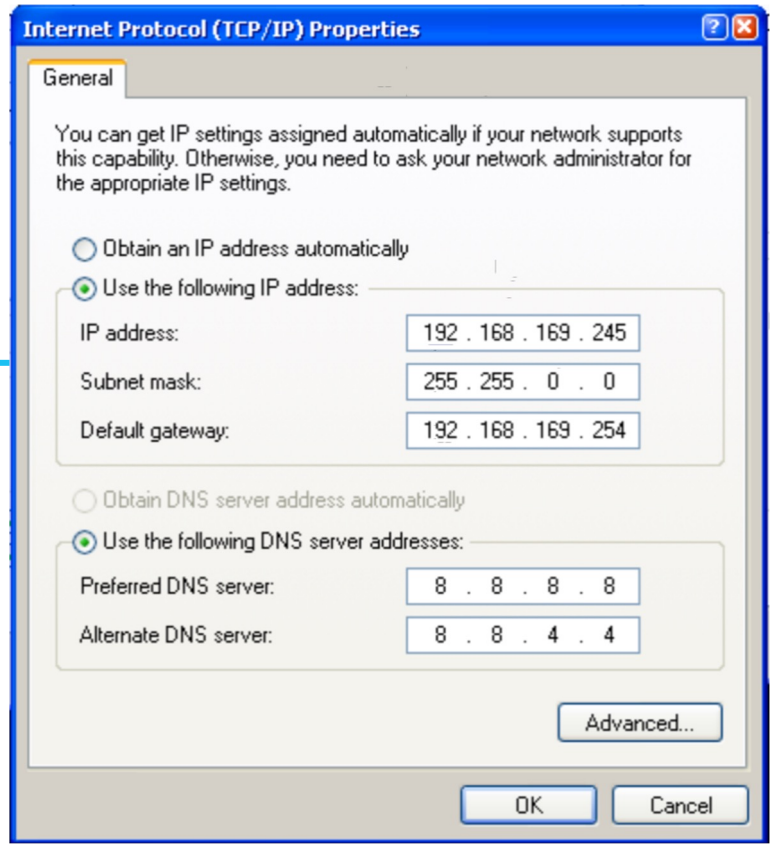
Client Network Configuration

The default IP address of the processor is 192.168.168.220

The subnet mask is 255.255.255.0. Please ensure that the client host IP address and the processor are in the same network segment so that the client software can connect to the processor successfully.

(Note: Once the device is found, the user can modify the IP address of the processor)

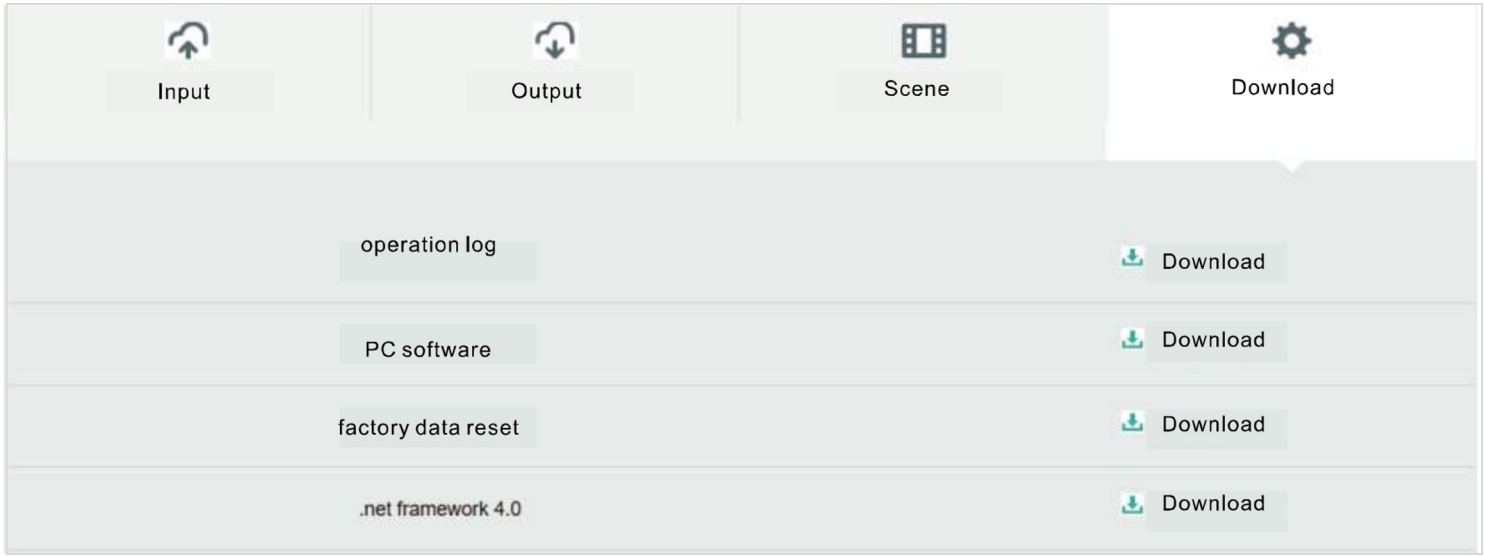




Download Software

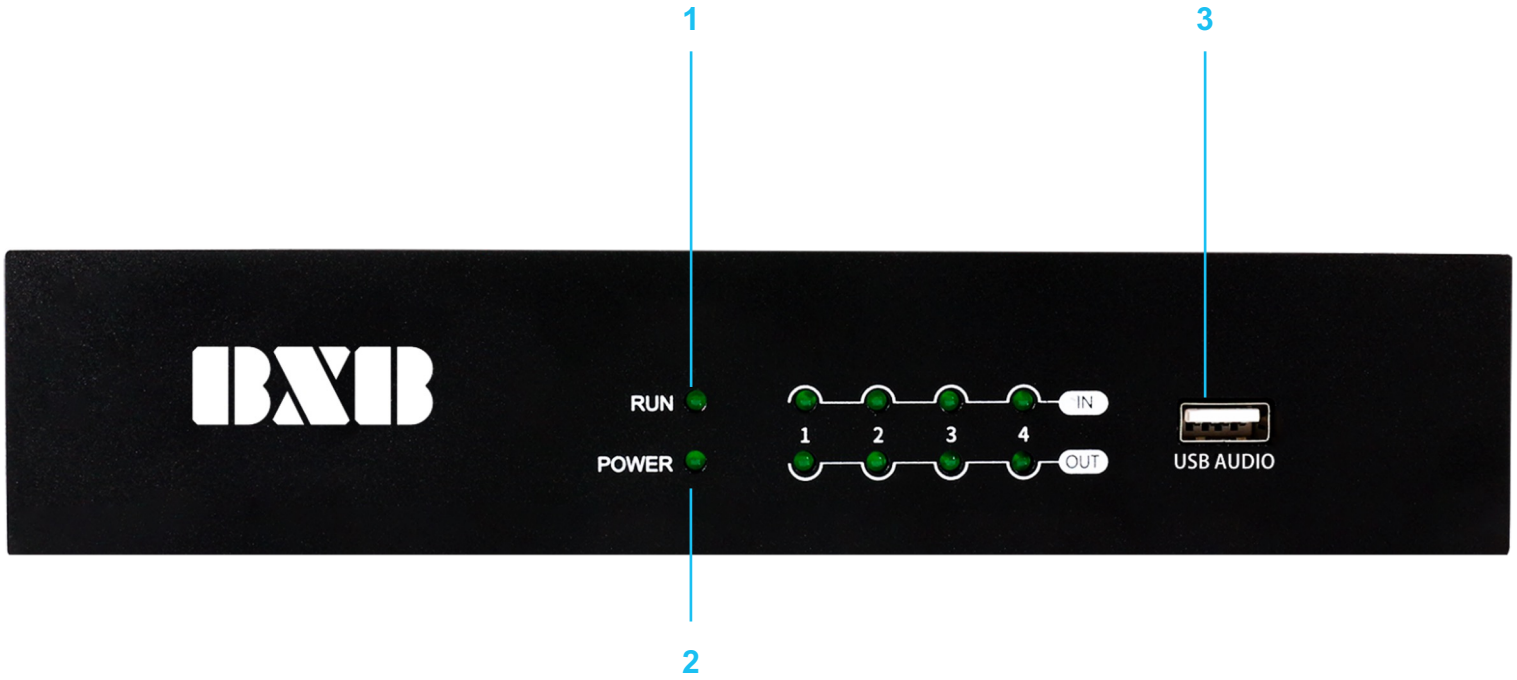
The software is downloaded by accessing processors in the same network segment within the local area network. By entering the device IP address in the IE browser address bar to access the processor, find the download link and download the software locally to complete the installation; Default IP address: 192.168.168.220, subnet mask: 255.255.255.0;

Please ensure to add the address of the network segment to the PC first, so that the device can connect normally. After the device is started, access the address http://192.168.168.220/ with the browser.



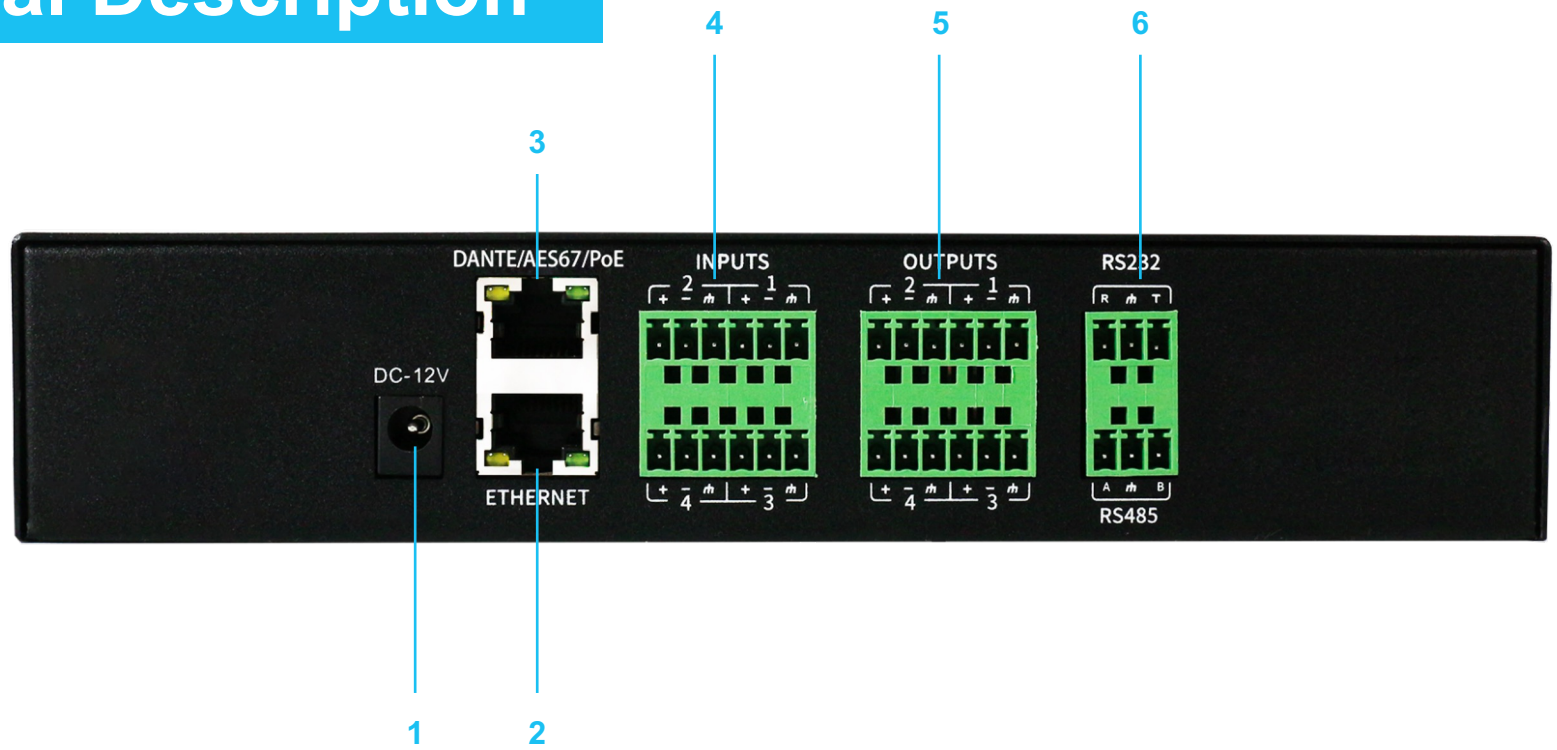
Before installing PC software, please ensure that Microsoft Net Framework version 4.0 or higher version is installed on the PC.

Physical Description



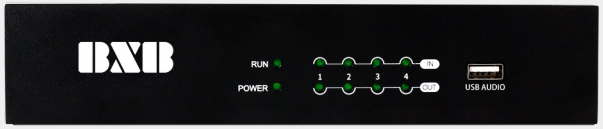
1. STATUS: System status indicator
2. PWR: Power indicator
3. USB sound card device interface

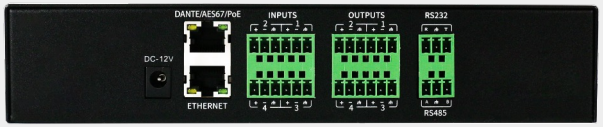
Physical Description



1. DC 12V power in
2. Ethernet network control interface: The user can debug and monitor the device through the connection of this network port.
3. Dante network interface
4. RS232+RS485 port: Connect to the control terminal or the central control device.
5. Signal output interface: can connect power amplifier, active speaker and other devices.
6. Signal input interface: can connect microphone, DVD and other devices.

Features





- Built-in 2 in 2 out USB sound card, supporting music playback, recording and soft video conferencing, such as: ZOOM, Google Meet, Microsoft Teams, etc.
- Supports AFC (feedback suppression), AEC (echo cancellation), ANS (noise suppression), ANC (noise gain compensation), AGC (automatic gain), gain sharing, threshold automatic mixing.
- 8-band equalizer providing 5 filter options: Parametric, Low shelf, Highshelf, Lowpass, Highpass.
- Provides customizable user interface, and support up to 30 devices to be managed under the same UI.
- Supports RS232, RS485 and UDP central control.

Specifications

Hardware Specifications

Processor
ADI SHARC 21489 @ 450MHz SIMD

Sample Rate
48K/24 位

Number of Dante input and output channels
4x4

Phantom Power
+48V/10mA

Max. Level
+18dBu

Input Dynamic Range
110dB

Channel Isolation @1kHz
108dB

Output Impedance (balanced connection)
600Ω

DSP processing power
400 MIPS · 1.6 GFLOPS

Number of analog input and output channels
4x4

Input Gain
0/6/12/18/24/30/36/42/48 dB

Frequency Response
20～20kHz：+0.5dB

THD+N
<-100dB @4dBu

Output Dynamic Range
112dB

Input Impedance (balanced connection)
5.4Ω

System Latency
<3ms

Physical Information

Dimension
215x162x44 (mm)

Weight
2KG

Power Supply

Power Supply
DC12V/PoE48V



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