



DPA-AMIX 4 Input Analog Mixer Accessory Card



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WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other device (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart/device combination to avoid injury from tip-over.
13. Unplug this device during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled, or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on apparatus.
17. The mains plug is used as a disconnect device. The mains plug of the apparatus should not be obstructed OR should be easily accessed during intended use. To completely disconnect the power input, the mains plug of apparatus shall be disconnected from the mains.
18. This product shall be connected to a mains socket outlet with a protective earthing connection.



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Warning When The Device Is In Use

- To prevent electric shock, do not remove the product cover as there are high voltage components inside. Refer all servicing to Atlas Sound.
- Should any of the following irregularities occur during use, immediately switch off the power, disconnect the power cord from the AC outlet and contact Atlas Sound. Do not to attempt to continue operation with the product as this may cause fire or electric shock:
 - Smoke or strange smell coming from the unit.
 - If the product falls or the case is damaged.
 - If water or any metallic objects falls into the product.
 - If the power supply cord is damaged in any way.
 - If the unit is malfunctioning.
- Do not insert or drop metallic objects or flammable materials into the ventilation holes of the product's cover, as this may result in electric shock or fire.
- Do not place any containers with liquid or metallic objects on the top of the product. If any liquid spills into the unit, fire or electric shock may result.
- Never operate this product or touch the power supply cord during an electrical storm, electric shock may result.
- Never exceed the power rating on the product when connecting equipment. Fire and/or property damage may result.
- Operate the product only with the voltage specified on the unit. Fire and/or electric shock may result if a higher voltage is used.
- Do not modify, kink, or cut the power cord. Do not place the power cord in close proximity to heaters and do not place heavy objects on the power cord, including the product itself, doing so may result in fire or electrical shock.
- Ensure that the safety ground terminal is connected to a proper ground. Never connect the ground to a gas pipe as a catastrophic disaster may result.
- Be sure the installation of the product is stable, avoid slanted surfaces as the product may fall and cause injury or property damage.

Caution When Installing The Product

- Plugging in or unplugging the power cord with wet hands may result in electric shock.
- Never move the unit with the power cord plugged into the wall, as damage to the power cord may result.
- When unplugging the cord from the wall, grasp the plug, NOT the cord.
- Never install this product in humid or dusty locations, nor in direct sunlight, near sources of heat, or in areas where sooty smoke or steam are present. Fire and electric shock may result.
- Keep all sides of the unit at least 3½" away from objects that may obstruct air flow to prevent the unit's internal temperature rise.

Caution When The Product Is In Use

- Never place heavy objects on the product, causing it to fall and/or break, resulting in personal injury and property damage. In addition, the product itself may fall and cause injury and property damage.
- Contact Atlas Sound for instructions on cleaning the inside of the unit. Large accumulations of dust inside the unit may result in heat buildup and fire.
- Ensure that the power supply plug is securely plugged into the wall outlet. Never allow dust to accumulate on the power plug or inside the wall outlet.
- When cleaning the unit or the unit is not to be operated for an extended period, unplug the power cord from the wall.





Introduction

The DPA-AMIX accessory card is designed to work in conjunction with DPA Series amplifiers that include a rear panel accessor card slot. The unit features 4 inputs, two mic/line inputs and two auxiliary line inputs. The mic/line inputs are user selectable and include Phantom power, 120Hz Hi Pass filter and a variable limiter on both inputs. The two auxiliary inputs feature a mono active summing circuit that gives the ability to connect two stereo sources to the amplifier simultaneously. All inputs have separate level controls and signal and clip LEDs.

DPA-AMIX Features

- 2 Balanced Mic / Line Input
- 2 Summed Mono or 1 Stereo or AUX Line Inputs
- Switchable 24V Phantom Power
- 2 Variable Input Limiter on Mic Inputs
- Assignable 120Hz / 12dB Hi-Pass Filter for Mic / Line Inputs
- Recessed Level Controls
- Input Signal & Clip Indicator LEDs





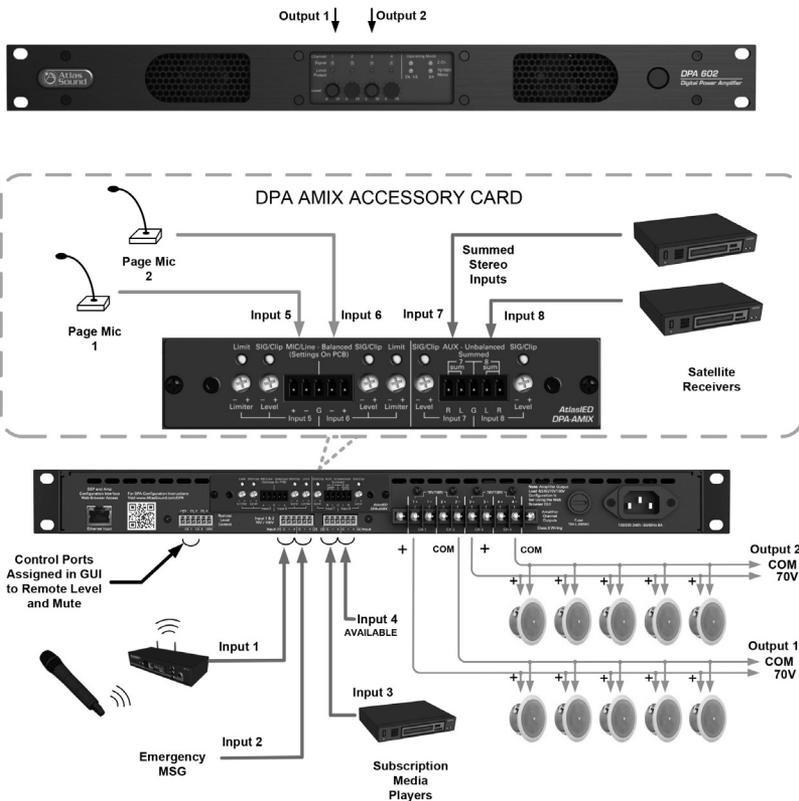
Applications

The DPA Series amplifiers DSP features combined with the DPA-AMIX converts the DPA amplifiers into 8 x 4 zone matrix mixer amplifier. The amplifier DSP function allows for signal routing along with priority muting via VOX sensing or contact closures making the DPA Series amplifier the go to solution for a variety of applications.

- Restaurants
- Sports Bars
- Schools
- Industrial Facilities
- House of Worship

Below is an illustration of one of many applications the DPA-AMIX is suited for.

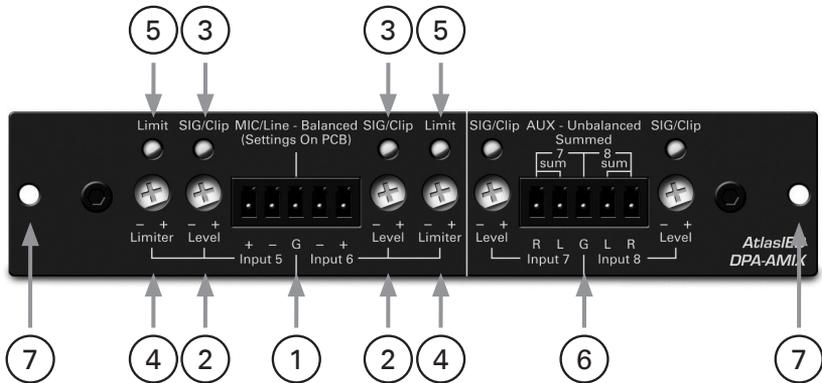
2 CHANNEL 70V CONFIGURATION (DEFAULT)



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Front Panel Description



- 1. Input 5 & 6 Mic / Line Input** - To select between microphone and balanced line input refer to the Input Switch setting section. For connecting an unbalanced signal to the line input, the (-) pin needs to be connected to the Ground (G) pin.
- 2. Input 5 & 6 Level Control** - Rotate clockwise (+) to increase level.
- 3. Input 5 & 6 Signal / Clip LED** - Will illuminate Green when signal is present and Red when an excessive input signal is present. An occasional Red blink is ok, but if the LED is RED constantly the source signal needs to be reduced. **Note:** The signal and clip LEDs are PRE the input level controls, meaning the LEDs will illuminate even if the input level control is turned down or (-).
- 4. Input 5 & 6 Limiter Threshold Control** - These controls adjust the maximum signal level allowed to reach the amplifier channel. This control adjusts where the limiter threshold starts to reduce the output level. Rotate clockwise (+) to make the limiter reduce the output levels. Rotate counterclockwise to reduce the sensitivity, thus letting larger signal "Peaks" through to the output. See also "Limiter LED" for more information.
- 5. Input 5 & 6 Limiter LED** - Adjustment of the Limiter feature should be done after the input gain or level has been properly set. The limiter when set correctly will limit the amount of level to the amplifier even under extreme signal peaks. Adjust the limiter control so the limiter LED just begins to flash Yellow during maximum levels. When illuminated the LED indicates where the threshold of signal reduction begins.



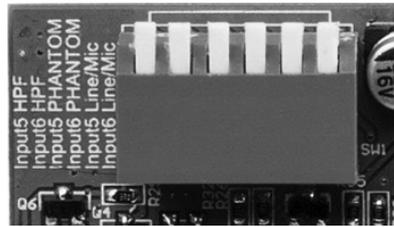
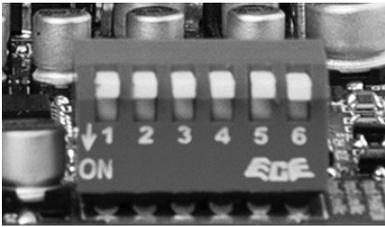
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Front Panel Description

6. **Input 7 & 8 Auxiliary Source** - There are two ways of configuring this wiring.
- **Two Sources With A Summed Mono Signal** - For connecting two stereo sources with a resulting mono signal to the amplifier, connect the Right output (+) of the source to the (R) input terminal of Input 7 and the Left output (+) of the source to the (L) input terminal of Input 7 and the ground connection of the source output to the Input (G) terminal. The right and left signals will be electronically summed into one mono signal. Repeat these steps for Input 8.
 - **Single Stereo Source** - Feeding a stereo signal to the amplifier will require the use of both Inputs 7 and 8. Connect the Right output (+) of the source to the (R) input terminal of Input 7 and the Left output (+) of the source to the (L) input terminal of Input 8 and the ground connection of the source output to the Input (G) terminal. **Note:** Input 7 (L) and Input 8 (R) terminals are not used, NO CONNECTION.
7. **Panel Mount Holes** - There are two holes for screws to secure the DPA-AMIX to the amplifier chassis. Only use M3 x 8MM screws.

DIP Switch Settings



Before installing the card into the amp determine how Inputs 5 and 6 will function. Configure the Dip Switches to the installation requirements then install the card.

DP SW 1 - Input 6 Mic Line Selection. Up for Line Mode and Down for Mic ON

DP SW 2 - Input 5 Mic Line Selection. Up for Line Mode and Down for Mic ON

DP SW 3 - Input 6 Phantom Power. Up for Off and Down for ON

DP SW 4 - Input 5 Phantom Power. Up for Off and Down for ON

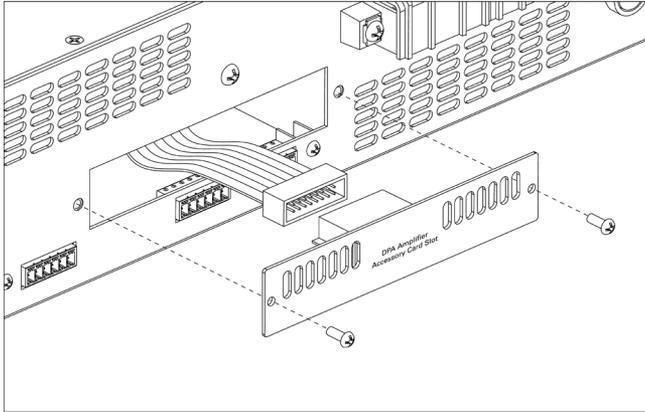
DP SW 5 - Input 6 120Hz Hi Pass filter. Up for Off (Flat) and Down for ON (Active)

DP SW 6 - Input 5 120Hz Hi Pass filter. Up for Off (Flat) and Down for ON (Active)





Accessory Card Installation



Contact Atlas Sound for a list of accessory cards. **Note:** Accessory card installation must be done by a qualified technician.

1. **Remove the DPA amplifier from the AC mains source.** **Note:** In standby mode there are DC voltages present. The the DPA amp must be removed from the AC Mains source in order to prevent damage to the card or amplifier.
2. Remove the two screws (M3 x 8mm Pan Head Black) holding the DPA Accessory blank panel. Be careful, do not lose the screws.
3. Remove the ribbon cable from the cover plate.
4. Connect the accessory card to the ribbon cable by carefully aligning the ribbon cable connector to the mating PCB connector. Do not force. If aligned correctly the cable will mate easily.
5. Carefully guide the accessory card into the slot without forcing the PCB or cable.
6. After the card is inserted and the accessory panel is flush to the chassis, align the two screw holes and secure them together by inserting two M3 x 8mm screws.

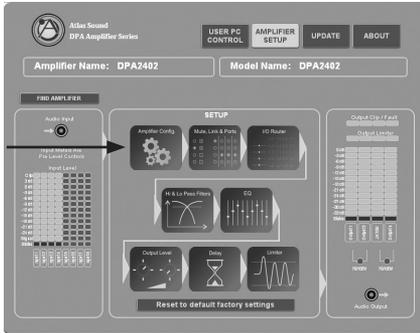


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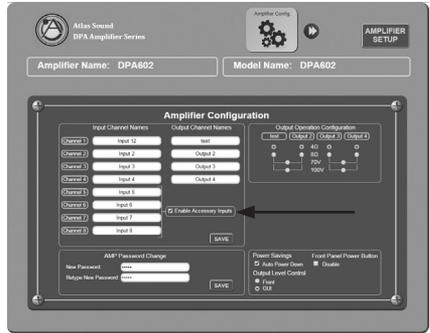


DPA Setup after DPA-AMIX Installation

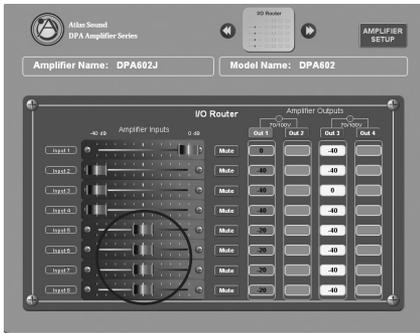
1. Please read the DPA manual for access to the DPA Series amplifiers control GUI interface. After you have access to the GUI proceed to step #2.
2. In the Setup page go to the Amplifier Configuration Tab. On this page select the box "Enable Accessory Inputs"
3. Go to the I/O Router page and route Inputs 5-8 to an output.
4. Priority Mute functions & Remote Level can be assigned in the "Mute, Link & Port" page.



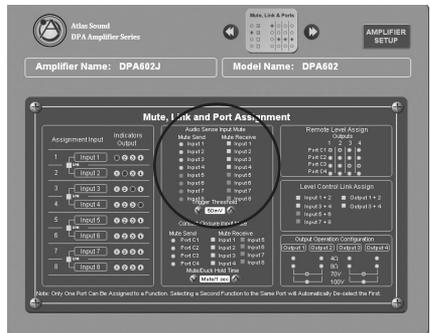
DPA Setup Page
(Select Amp Config Page)



DPA Amplifier Configuration Page
(Select Enable Accessory Inputs)



I/O Router Page
(Confirm On I/O Router Page,
Fader Knobs are Present)



Mute, Link, and Port Page
(Select Mute Function if Required)



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Specifications

Type 4 Input Analog Mixer Card for the DPA Series Amplifiers

Inputs 5 & 6

Type Balanced Mic or Line Selectable
 Connection Removable 3 Position Captive Screw 3.5mm Spacing
 Impedance 1.2K Ω Bal, 600 Unbalanced
 Line Input Sensitivity 0dBu (775mV) Balanced
 Mic Input Sensitivity -37dBu (10mV)
 Mic Gain 34dBu

Inputs 7 & 8

Type Unbalanced, Actively Summed
 Connection Removable 5 Position Captive Screw 3.5mm Spacing
 Impedance 10K Ω
 Input Sensitivity -10dBV (316mV)

Controls

Input Level Control Qty 4, Recessed Rotary Potentiometer , Inputs 5,6,7,8
 Limiter Threshold Control Qty 2, Inputs 5 & 6, Recessed Rotary Potentiometer

Indicators

Signal Bi-Color, Qty 4, Illuminates Green, 30mV On Threshold, PRE Level Control
 Clip Bi-Color, Qty 4, Illuminates Red, PRE Level Control
 Limit Qty 2, Illuminates Yellow on Limit Thresold

Assignable Functions (PCB DIP Switch)

Hi Pass Filter Qty 2, 120Hz/12dB, DIP SW Aassign to Inputs 5 & 6
 Mic / Line Qty 2, DIP SW Aassign to Inputs 5 & 6
 Phantom Qty 2, DIP SW Aassign to Inputs 5 & 6

Electrical Specifications

Frequency Response 20Hz - 20KHz +/- 1dB
 THD .06% @ 1KHz
 Inputs 5 & 6 Max Line Input Level 12.5dBu (3.3V) Balanced
 Inputs 5 & 6 Max Mic Input Level -23dBu (52mV)
 Inputs 7 & 8 Max Input Level 12.5dBu (3.3V) Balanced
 Phantom Power +/- 15DCV

Mechanical

Dimension H 0.97" x W 4.7" x D 2.5" (H 24.6mm x W 119mm x D 63mm)
 Weight 2.6oz (.07kg)
 Color Black
 Material Steel



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Limited Warranty

All products manufactured by Atlas Sound are warranted to the original dealer/installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of three years on all Atlas Sound products, including SOUNDOLIER brand, and ATLAS SOUND brand products except as follows: one year on electronics and control systems; one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty. Atlas Sound will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to Atlas Sound do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any nonwarranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLAS SOUND SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Atlas Sound does not assume, or does it authorize any other person to assume or extend on its behalf, any other warranty, obligation, or liability. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Service

Should your DPA-AMIX require service, please contact the Atlas Sound warranty department at 1-877-689-8055, ext. 1274 to obtain an RA number.

Atlas Sound Tech Support can be reached at 1-800-876-3333.

Visit our website at www.AtlasSound.com to see other Atlas products

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