

## PLENA matrix – DSP Power Amplifiers

### PLM-4Px2x – DSP Power Amplifiers

→ Front panel layout (no front panel controls)

Fault indication



Power indicator

Line input signal present  
and clip indication

# PLENA matrix – DSP Power Amplifiers

## PLM-4P125 or PLM-4P220 DSP Power Amplifiers

→ Rear panel layout

4 x line inputs via XLR/TRS combo or Euro-Phoenix connection



Power switch and connector

Amplifier channel outputs

Channel attenuation

Amp Link input

Ethernet control port

Movement sensor/contact closure for Auto standby and 12VDC power output

DIP Switch to control input sensitivity and bridging

Active override input and contact closure

Bosch Communications Systems

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 **BOSCH**  
Invented for life

# PLENA matrix – DSP Power Amplifiers

## DSP Amplifier features:

- 125 W or 220 W option
- Class D technology
- DSP feature set
- Separate dedicated 4  $\Omega$  / 8  $\Omega$  / 70 V / 100 V on each output
- Bridgeable outputs (1–2 / 3–4)
- Loop out via the unused analog input connectors
- Power ratings are consistent across all impedances
- Standby / Auto Standby Mode



# PLENA matrix – Unique Selling Features

## Unique system features

### Amp Link

- Amp Link is a connection between the PLM-8M8 and the PLM-4Px2x amplifiers
- This connection replaces the need to connect the units via the Euroblock/Phoenix connectors
- High quality STP CAT5 cable is recommended
- Maximum recommended cable distance is 5 m
- If further distances are required Euroblock balance line connections are recommended
- CAT5 cable is also used to power and daisy chain call stations and wall control panels
- Standard connections reduce installation time and offer cost savings as well as providing a reliable, quality connection



# PLENA matrix – Unique Selling Features

## Unique amplifier features

### Inbuilt Input Mixer

- Allows mixing of the 4 inputs to different power amplifier channels
- Allows the amplifier to be installed star alone as an advanced and powerful mixer amp
- Input controls:
  - Trim
  - 7 filters (PEQ, HPF, LPF, Shelf)
  - Compressor/Limiter
- Output controls:
  - 120 ms delay per channel

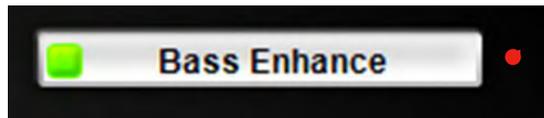


# PLENA matrix – Unique Selling Features

## Unique amplifier features

### Bass Enhance

- Dynamic low frequency enhancement for when areas are not running to nominal SPL
- Ensures that even at low SPL the system delivers excellent sound quality



- Automatically reduces to previous levels when nominal SPL is restored



# PLENA matrix – Unique Selling Features

## Unique amplifier features

### Auto Standby mode

- Switches the amplifiers into standby when zones are not in use
- Reduces duty cycle on the power supply
- Halves lifetime running costs
- Reduces the environmental impact
- Doubles product lifetime

