MX2222 MX2322 Pre-amplifier Mixer



12 Inputs Pre-amplifier Mixer



MX2222 is a compact mixer suitable for commercial PA applications with all features required to comply with EVAC system such as priority muting.

It is also suitable for other general applications such as audio mixing in meeting rooms, lecture theaters, places of worships, etc.

- 12 inputs of mic, BGM sources, ext. chime and mixer link for **channel expansion**
- Bass and treble tone controls
- Switchable **phantom power** for mic channel 1 to 4
- **Priority** muting with disable option for normal mixing mode
- Built in daisy chain **source selector** with last selection memory
- Dual output; mixed line and BGM output for uninterrupted paging setup
- AC and DC power source for uninterrupted operation during power failure

Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm Gross weight : 2.90 kg 1 unit per carton



MV2222

MY2322

13 Inputs Dual Bus Pre-Amplifier Mixer

- -13 Ch: 8 mic / line, 2 RCA, 2 external lines and 1 paging mic high priority inputs
- Individual Gain controls for mic and line inputs
- Assignable input to output A or B or both
- Switchable **phantom power** for Ch. 1 to Ch. 8
- **Priority** muting switch to override BGM sources
- **Dual output** A and B with separate tone controls and record output channels
- AC and DC power source for uninterrupted operation during power failure

MX2322 is a further refined pre-amplifier mixer with dual bus outputs, suitable for both EVAC commercial PA installations as well as other general usage in meeting rooms, function halls, etc.

Packing Information

MV2222

Carton size : 555 (L) x 295 (W) x 165 (H) mm

Gross weight : 4.0 kg 1 unit per carton

Technical Specifications

	MX2222	MX2322	
Operating voltage	220 - 240V AC : 50/ 60 Hz / 24V DC		
Current (max)	10 mA (240V ac) / 100 mA (24V DC)	40 mA (240V ac) / 260 mA (24V DC)	
Power consumption (Max)	2.4W (240V ac / 24V DC)	9.6W (240V ac) / 6.3W (24V DC)	
Inputs	6 x Mic + phantom power at Ch 1 to 4	8 x Mic/ Line with gain controls + phantom power	
Присэ	2 x Line input with priority, 4 x RCA	2 x Line input with priority, 2 x RCA, 1 paging mic	
Inputs impedance	RCA: 47 k Ohm, Mic: 1 k Ohm, Link: 10 k Ohm	Line: 10k Ohm; Mic: 15 k Ohm	
Phantom power	12 V DC at Ch 1 to 4 (Switchable)	18V DC at Ch 1 to 8 (Switchable)	
Operating level (sensitivity)	-30 dBU (mic), +4 dBU (line)		
Input level (max)	+10 dBU		
Gain controls	+20 dBU balanced/ unbalanced		
Crosstalk	> 60 dB	>70 dB	
Outputs	1 x line balanced, 1 x records unbalanced	2 (A&B) line balanced, 2 x records unbalanced	
Output impedance (Ohm)	600 Ohm balanced	300 Ohm balanced	
Tone controls	2: Low/ Mid (300 Hz), Hi (10 KHz)	3: Low (100Hz), Mid (1 KHz), Hi (10 KHz)	
Frequency response	175 - 15 KHz	20 - 20 KHz	
S/N ratio / THD+N	>60 dB / < 1%	>75 dB / < 1%	
Connectors	XLR-F (mic in / line out), 1/4" TRS (line & mix in)	Mini Phoenix (mic/ line inputs and outputs)	
Connectors	1/4" TRS Unbal (rec & BGM), RCA	RCA, RJ45 for Amperes PM1030 mic	
Dimensions (W x H x D)	482 x 44 x 185 mm	482 x 88 x 185 mm	
Weight	2.2 kg	3.3 kg	

DA2208 2 In 8 Out Audio Distribution Amplifier

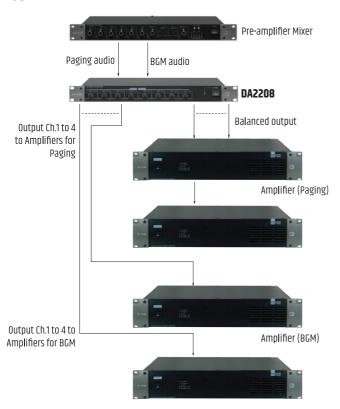


DA2208 is an audio (line level) distribution unit with configuration of 2 in x 4 out or 1 in x 8 out. As rule of thumb, a signal shall not be fed to more than six amplifiers in your PA rack in order to avoid signal degradation. Thus DA2208 shall come in handy to the solution.



- Operates as **dual channel** 1 input 4 output or **single channel** 1 input 8 output
- Individual bass and treble control with **volume adjustment**
- Fail safe feature: redirect input to outputs when DC supply or unit fails

Application Schematic



The above illustration is used for uninterrupted paging setup which requires 2 sets of amplifiers serving Paging and BGM respectively.

Technical Specifications

Operating voltage	24V DC; 0.2A
Power consumption	2.4 W, 0.1 A
Configurations	1 in x 8 outputs
Comigurations	2 in x 4 outputs
Input levels	Line: 1.2V rms (+4 dBU) max
Input impedance	10k 0hm
Output impedance	600 0hm
Gain	+4 dB
Controls	Bass and Treble tones
Controls	Individual and master volume
S/N ratio	> 60 dB
THD + N	< 1%
Frequency response	150 - 19 KHz (+/- 3 dB, 1 KHz)
Connections	XLR 3 pins
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	1.95 kg
·	

Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm Gross weight: 2.55 kg

PA320 PA322 PA330 PA300 Series- Mini Amplifiers

PA300 Series of mini amplifiers are available to power small number of localized speakers. 3 variants are available for different applications, with 4 0hm speaker connectivity as well as 100V line output for high impedance speakers. Their compact size enabled them to be stored in small enclosed areas such as cabinets, pole boxes, etc.

PA320 20W 4 0hm Mini Amplifier

Used to amplify BGM to a speakers of 4 or 8 0hm, from TV output to a bathroom speaker in hotel room. Amperes VC7810 volume controller and VP7810 BGM Speaker patch panel can be installed for emergency overriding by central PA system.

- Adjustable **volume** control
- Compact size of 20W 4 0hm rating







VC7001 Volume Controller for PA322

PA322 20W 4 0hm Mini Amplifier with Dual Source

It is powered by Class D amplifier with built in PA overriding module which allows central PA to override local source for emergency broadcast. Two audio source can be connected to PA322, which is selectable via VC7001 volume controller with source selector button and smooth volume adjustment.

- Class D amplifier with 20W 4 0hm rating
- Dual input source, selectable via external volume controller (VC7001)
- Easy connection to **VC7001** for source selection and volume adjustment

PA330 30W 100V Mini Amplifier

It is suitable to be used as remote amplifier in decentralized system such as classroom paging, horn amplifier for security poles or to drive a group of localized high impedance speakers. To use as relay amplifiers along 100V line trunk, a down converter such as PR7400 can be installed with its output fed to PA330 to drive some 100V speakers.

- Adjustable **volume** control
- Compact size of 30W 100V output





Technical Specifications

	PA320	PA322	PA330
Ratings	20W	30W 100V	
Operating voltage		220 - 240V AC	
Current consumption (240V AC)	0.14A	0.03A	0.24A
Inputs	1	2	1
Input audio		Mono, unbalanced	
Input signal (sensitivity)		800 mV	
Input gain controls	-40 to +4 dBU		
Input impedance	10 k 0hm		
Outputs impedance	4 Ohm	4 0hm	330 Ohm
Controls	Volume	Volume & source select	Volume
External link (optional)	VC7810, VP7810	VC7001	VC7030
Frequency response	100 - 18 KHZ 20 - 20 KHZ 100 - 20 KHZ		
S/N ratio	>65 dB		
Operating temperature	-10° to 60°C		
Operating humidity	80%		
Dimensions (W x H x D)	130 x 55 x 95 mm	140 x 55 x 95 mm	150 x 71 x 155 mm
Weight	0.76 kg	0.82 kg	1.10 kg

Packing Information

PA320 / 322:

Carton size : 555 (L) x 295 (W) x 165 (H) mm

Gross weight: 16.20 kg 20 units per carton

PA330:

Carton size : 550 (L) x 465 (W) x 180 (H) mm

Gross weight: 16.55 kg 12 units per carton

PA2120 PA2240 PA2360 PA2480 PA2600

PA2000 Series





PA2120

PA2240

PA2360

PA2480

PA2600

240W 100V

360W 100V

480W 100V

600W 100W

PA2000 series of power amplifiers has been a workhorse of powering the PA setups for decades. They are available in various power ratings to choose from to suit the loading requirement. With our continuous product improvement effort, we had improved the performance and

reliability in line with ever changing needs of the industry.

- In rush current limiter
- Momentary short circuit **protection**
- Temperature dependent dual speed cooling fan
- 4 0hm speaker connection available with 25V 48V output
- AC and DC operation for uninterrupted operation during power failure
- Thermal protection by muting input signal (typically 75 deg at heat sink)
- Balanced input signal with gain control and selectable grounding option

Technical Specifications

	PA2120	PA2240	PA2360	PA2480	PA2600
Ratings (rms) 100V output	120W	240W	360W	480W	600W
Operating voltage		220 - 2	40V AC or 24V DC back up si	upply	
Power consumption (240V AC)	255 VA (0.1A)	497 VA (1.9A)	731 VA (2.8A)	996 VA (3.8A)	1069 VA (4.1A)
Current consumption (24V DC)	6.1A	10.6A	16.3A	22.3A	23.1A
Standby current (24V DC)	0.	2A	0.3A	0.4	A
Input signal (sensitivity)		1V (+4 dBU	l) / 10 k Ohm via Phoenix co	nnectors	
Input gain controls		-40 to +40 dBU			
Outputs	70 / 100V line and 4 0hm				
4 Ohm output voltage	22 V	31 V	38 V	43.8 V	48 V
Output impedance (max load)	83 Ohm	42 Ohm	27 Ohm	20 Ohm	16.6 Ohm
Frequency response	70 - 15 KHz @ 1 KHz +/- 3dB				
S/N ratio	>70 dB @ 1 KHz, 1V				
THD + N		<1%			
Protections		Thermal, sho	rt circuit, overload, fuse, in-	rush current	
Cut off temperature		75°C			
Cooling system	Auto temperature controlled cooling fan				
Indicators	LED: Power, Signals				
Dimensions (W x H x D)	482 x 88 x 335 mm				
Net weight	11.40 kg	12.35 kg	16.20 kg	17.95 kg	19.60 kg

Packing Information

Carton size : 550 (L) x 465 (W) x 180 (H) mm

Gross weight : PA2120 - 13.10 kg

: PA2240 - 13.85 kg : PA2360 - 17.40 kg

: PA2480 - 19.65 kg : PA2600 - 21.30 kg

QP2125 QP2250 QP2375 QP2500

QP2000 Series - Auto Fault Sensor (AFS)

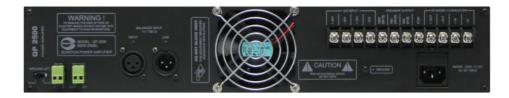
QP2125 125W 100V

QP2250 250W 100V

QP2375 375W 100V

OP2500 500W 100V





QP2000 series is available with power ratings from 125W to 500W 100V, enhanced with various controls and protections for reliable performance. It is digitally controlled, enabling it to be monitored and controlled remotely via PMX software.

> One distinct feature apart from others are the Auto Fault Sensor (AFS) circuitry with built in standby changeover relay. It saves the need of external changeover device for continuous operation of the system.

- In rush current limiter
- RS485 data port for **remote monitoring**
- Fan speed option ensures longer lifespan if the unit
- Overload, thermal cut of, short circuit and fuse **protections**
- AC and DC operation for uninterrupted operation during power failure
- Available in **125 / 250 / 375 / 500W** 100V line output in compact 2 HU height
- Built in **Auto Fault Sensor** and **Changeover** relay for standby fault changeover - Digital setting for various **control** features such as bass, treble, fan speed, etc.

Technical Specifications

	QP2125	QP2250	QP2375	QP2500
Ratings (rms) 100V output	125W	250W	375W	500W
Operating voltage		220 - 240V AC or 24\	/ DC back up supply	
Power consumption (240V AC)	294 VA (1.1A)	447 VA (1.7A)	749 VA (2.9A)	873 VA (3.3A)
Current consumption (24V DC)	5.9A	10.6A	16.7A	19.6A
Standby current (24V DC)		0.7A		0.9A
Input signal (sensitivity)	1'	v (+4 dBU) / 10 k 0hm	via Phoenix connector	S
Input gain controls		-40 to +	40 dBU	
Outputs		70 / 100V lin	e and 4 Ohm	
4 Ohm output voltage	22.3 V	31.6 V	38.7 V	44.8 V
Output impedance (max load)	80 Ohm	40 Ohm	27 Ohm	20 Ohm
Frequency response	120 - 15 KHz @ 1 KHz +/- 3dB			
S/N ratio	>70 dB @ 1 KHz, 1V			
THD + N	<1%			
Protections	Ther	mal, short circuit, over	rload, fuse, in-rush cur	rent
Cut off temperature		75	°C	
Cooling system	Auto	temperature controlle	ed cooling fan with aut	to ON
Indicators		LCD with temp, audi	o level and address	
Communication	RS485; 19.2 kbps			
Fault sensing	Internal Pilot Ton : 20 KHz, detection at 15 - 20 sec, 10 secs interval			cs interval
Fault detection response	Standby amplifier relay activation, fault dry contact			tact
Dimensions (W x H x D)	482 x 88 x 335 mm			
Net weight	11.60 kg	12.70 kg	16.50 kg	18.05 kg

Packing Information

Carton size: 550 (L) x 465 (W) x 180 (H) mm

Gross weight : QP2125 - 13.50 kg

: QP2250 - 14.60 kg : QP2375 - 18.00 kg : QP2500 - 19.90 kg

QD2025 QD2050 QD2075 QD2100

QD2000 Series Class D



QD2025

250W 100V Line 500V

QD2050

500W 100V Line 750W 100V Line

QD21001000W 100V Line

QD2000 series are high performance Class D power amplifiers with high efficiency and broad frequency range suitable for wide range of speakers, be it full range or EVAC speakers.

The in-built Auto Fault Sensing circuit provides dry contact for easy standby fault changeover and the RS485 data port is available for remote monitoring by Amperes PMX III software.

- 100V and 4 0hm outputs
- **High pass filter** for speaker protections

QD2075

- Auto fault sensor (AFS) with dry contact
- High efficiency **Class D** power amplifier technology
- AC and DC operation for uninterrupted operation during power failure
- Built in DC **Soft Starter**
- Switchable standby input detection for lower consumption during DC back up
- **Remote monitoring** via RS485 data port, compatible with iPX5500 data comm box

Technical Specifications

	QD2025	QD2050	QD2075	QD2100
Operating voltage	220 - 240V AC: 50/60 Hz or 21 - 30V DC back up supply			
Rated output (rms at 100V)	250W	500W	750W	1000W
Power consumption (240V AC)	350 VA (1.3A)	650 VA (2.6A)	1000 VA (3.9A)	1300 VA (5.1A)
Current consumption (24V AC)	15A	25A	40A	50A
DC back up standby current		1.2A (With s	tandby off)	
Input sensitivity (100V out)	1'	V rms balanced input via p	hoenix connector (15k 0hm)	
Input link (buffered)		0 dB balanced	line (10k 0hm)	
Input signal standby		Switchable auto c	etect / always ON	
Input HF filter		150 Hz @-3dB sl	op via DIP switch	
Output	100V line / 4 0hm			
4 Ohm output voltage	50V			
Frequency response	60-20 KHz (+/- 3dB, 1 KHz)			
S/N ratio	> 68 dB			
THD + N	<1%			
Protections	Thermal, short circuit, overload, AC and DC fuses, standby			
Cut off temperature	75°C			
Communications		RS485; 1	9.2 kbps	
Indicators		Signal, Temp, Fa	nult, Power LEDs	
Fault relay		NO dry co	intact; 3A	
Cooling system		Auto temp c	ontrolled fan	
Operating temperature	-10° to 45°C			
Storage temperature	-40° to 70°C			
Humidity		95	5%	
Dimensions (W x H x D)		482 x 88 x	k 340 mm	
Net weight	6.8 kg	6.8 kg	7.0 kg	7.1 kg

Carton size : 550 (L) x 465 (W) x 180 (H) mm

Gross weight : QD2025, 2050 - 8.40 kg : QD2075, 2100 - 8.60 kg

DP2240 DP4240 DP2500

Compact Class D Multi Channel Amplifiers



DP 4246

DP2240 / DP2500

2 x 240W 100V / 2 x 500W 100V

DP2000 Series are compact multi channel power amplifiers in a single HU, which greatly reduce the space required in equipment racks. They are powered by high efficiency and wide frequency response circuits, enabling it to deliver optimum sound quality and with lesser heat.

DP4240

4 x 240W 100V

- Wide range AC supply with 24V DC back up
- Short circuit, overload, temperature and DC protections
- Individual balanced input with separate volume adjustment
- Switching power supply technology with **Class D** amplification
- Compact multichannel in 1 HU enclosure for rack spacing saving
- **Bandpass filter** to cut off unwanted bass audio and high pitch audio
- Available in 2 x 240W, 4 x 240W and 2 x 500W 100V line & 4 16 0hm outputs
- Switchable sleep / ON mode when input signal is not presence for **energy saving**



Technical Specifications

	DP2240	DP2500	DP4240
Ratings (rms) 100 V output	2 x 240W	2 x 500W	4 x 240W
Operating voltage	22	0 - 240V AC or 24V DC back up sup	ply
Power consumption (240V AC)	550 VA (2.3A)	1100 V	A (4.6A)
Current consumption (24V DC)	22 A	46	5 A
Standby current (24V DC)		0.3 A	
Input signal (sensitivity)	0.775 V	(O dBU)/ 10k Ohm via phoenix con	inectors
Input gain controls		-40 to +4 dBU	
Outputs	100V line and 4 - 16 0hm		
4 Ohm output voltage	38 V		
Output impedance (max load)	40 Ohm / Ch 20 Ohm / Ch 40 Ohm /		40 Ohm / Ch
Frequency response	20 - 20 KHz @ 1 KHz +/- 3 dB		
S/N ratio	>80 dB @ 1 KHz, 1V		
THD + N		< 1 %, 1 KHz	
Protections	Thermal,	short circuit, overload, fuse, in-rus	sh current
Cut off temperature	75°C		
Cooling system	Fan forced cooling		
Indications	LED: Protect, input audio, output and power		
Dimensions (W x H x D)	482 x 44 x 420 mm		
Weight	5.90 kg	6.90 kg	6.80 kg

Packing Information

Carton size : 605 (L) x 560 (W) x 125 (H) mm

Gross weight : DP2240 - 7.75 kg : DP2500 - 8.50 kg

: DP2500 - 8.50 kg : DP4240 - 8.40 kg

MA2012 MA2024 MA2036

Mixing Amplifier with Zone Selector





MA2012 / 2012P

MA2024 / 2024P

MA2036 / 2036P

120W 100V Line

240W 100V Line

360W 100V Line

MA2000 series of mixing amplifiers are built with Class D amplifier circuits, equipped with DC back up input and zone controls of 6 zones. It is suitable for small scale installation such as in showrooms, small prayer venues, offices, etc which require segregation of speaker zones.

Options are available for media player versions.

- 6 mic / line selectable inputs, with front mic jack, phantom power
- Bass and Treble tone controls
- Optional **media player** module
- High efficiency **Class D** amp with 100V and 4 0hm speaker outputs
- **Priority muting** for mic input 1 with adjustable muting level
- 6 zones speaker output with **All Call** and **remote trigger port**
- AC and DC operation for uninterrupted operation during power failure

Technical Specifications

	MA2012/ 2012P	MA2024/ 2024P	MA2036/ 2036P
Ratings (rms) 100 V output	120W	240W	360W
Operating voltage		220 - 240V AC	
Power consumption (240V AC)	160W / 0.7A	285W / 1.2A	450 W / 1.9A
Input - Ch 1 and 2	Balanced Mic input with 1	2V Phantom Power (10k Ohm); Adjustable mute priority
Ch 3 and 4	Balanced Mic / Line selectal	ble with 12V Phantom Power	(Mic: 10k Ohm, Line: 15k Ohm)
Ch 5 and 6	Unba	lanced input (15k Ohm) RCA (O dBV
THD + N (at rated power)		< 1 %	
S/N ratio		> 68 dB	
Tone controls	Bass (100 Hz), Treble (10 KHz) +/- 15 dB		
Frequency response	120 - 20 KHz (+/- 3 dB)		
Signal output	0 dBU balanced line		
Zone output	6 zone: Front	switch and remote paging m	ic with All Call
Power output -			
4 Ohm @ 1V rms input		50 V rms	
100V @ 1V rms input		100 V rms	
Protections	Ther	mal, short circuit, AC and DC f	uses
Indicators	Power, zone selection, signal level		
Cooling system	Thermostat controlled fan at 45 deg C		
Dimensions (W x H x D)	434	x 88 x 200 mm (without brac	:ket)
Weight	4.35 kg / 4.40 kg (P version)		

Packing Information

Carton size : 550 (L) x 295 (W) x 165 (H) mm Gross weight : MA2000 - 5.45 kg

: MA2000P - 5.50 kg

MC2112 MC2124 MC2136

MC2100 Basic Mixing Amplifiers





MC2112 / 2112P

MC2124 / 2124P

MC2136 / 2136P

MC2000 series are basic mixing amplifiers has been further enhanced with Class D amplifier technology, known for its better efficiency, wider frequency band, light weight and compact in size.

MC2000P are units With media player module with USB / SD card MP3 playback, Bluetooth and FM tuner.

- 6 inputs with front mic jack and phantom power
- Bass and treble tone controls
- Optional **media** player module
- 100V line output with aux 4 0hm speaker terminal
- High efficiency Class D power amplifier technology

MCD4DC / D4DCD

- **Priority muting** for mic input 1 with adjustable muting level

Technical Specifications

MC2112 / 2112P	MC2124 / 2124P	MC2136 / 2136P
120W	240W	360W
	220 - 240V AC	
160W / 0.7A	285W / 1.2A	450 W / 1.9A
Balanced Mic input with 1	2V Phantom Power (10k Ohm	n); Adjustable mute priority
Balanced Mic / Line selecta	ble with 12V Phantom Power	(Mic: 10k Ohm, Line: 15k Ohm)
Unba	lanced input (15k Ohm) RCA	O dBV
	< 1 %	
	> 68 dB	
Bass (100 Hz), Treble (10 KHz) +/- 15 dB		
120 - 20 KHz (+/- 3 dB)		
	0 dBU balanced line	
	50 V rms	
	100 V rms	
Ther	mal, short circuit, AC and DC	fuses
Power, signal level		
Thermostat controlled fan at 45 deg C		
434 x 88 x 200 mm (without bracket)		
	3.40 / 3.45 kg (P version)	
	120W 160W / 0.7A Balanced Mic input with 1 Balanced Mic / Line selecta Unba Bass Ther	120W 240W 220 - 240V AC 160W / 0.7A 285W / 1.2A Balanced Mic input with 12V Phantom Power (10k Ohm Balanced Mic / Line selectable with 12V Phantom Power Unbalanced input (15k Ohm) RCA < 1 % > 68 dB Bass (100 Hz), Treble (10 KHz) +/- 120 - 20 KHz (+/- 3 dB) 0 dBU balanced line 50 V rms 100 V rms Thermal, short circuit, AC and DC Power, signal level Thermostat controlled fan at 45 days and the state of the signal level Thermostat controlled fan at 45 days and the signal level Thermostat controlled fan at 45 days and the signal level

MCD442 / D442D

Packing Information

Carton size : 555 (L) x 295 (W) x 165 (H) mm

Gross weight : MC2100 - 4.45 kg : MC2100P - 4.50 kg

AC3801 8 Duty 1 Standby Manual Amplifier Changeover



AC3801 is a manual amplifier changeover panel with capacity of 8 duty and 1 standby amplifier. With its dual mode changeover triggering, the front panel switch can be used, otherwise from rear contact which is suitable for amplifiers with Auto Fault Sensing (AFS) feature such as QP or QD2000 series.

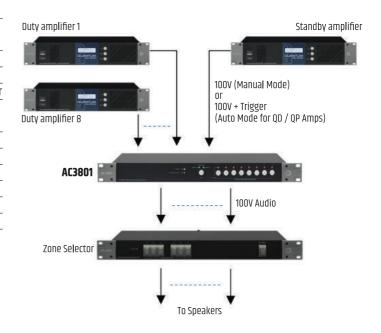


- Cater for **8 duty and 1** standby amplifier
- **Expandable** for 1 standby to server more than 8 duty units
- Overload **protection** by allowing only a single takeover
- **Priority** changeover for unit with higher numbered
- Manual front and rear triggering changeover (**dual mode**)
- Upgraded to 1000W per channel

Technical Specifications

Operating voltage	24V DC
Power consumption	Standby: 82mW, 3.4 mA
r ower consumption	Operating: 1.3W, 50 mA
Zone load rating	1000W 100V line input
No. of amplifier inputs	8 duty, 1 standby
Changeover indication	Front panel LED for duty amplifier being changeover
Switching mode	Via front panel switches (manual mode)
Switching mode	Remote trigger (auto mode)
Cable connections	Phoenix connectors
Cascade capacity	Unlimited (Recommend 3)
Cable size	Up to 2.5 mm sq
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	1.95 kg
Colour	Black, powder epoxy coated

Application Schematic



Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm Gross weight: 2.55 kg 1 unit per carton

AX3800 MKII

8 Duty 1 Standby Auto Standby Changeover



AX3800 MK II provides fast automatic changeover for faulty duty amplifier to standby unit. It can be cascaded to several units to enable one standby power pack to serve more than 8 duty amplifiers.

Internal pilot tone generated at intervals prevents phantom loading to amplifiers to lessen the work loads. With dual changeover at input signal and output 100V, it is thus suitable for matrix setup.

Priority and single takeover prevents overloading to standby unit.



Technical Specifications

Operating voltage	24V DC
Power consumption	2.5W (0.11A)
Standby consumption	2.3W (0.95A)
Input signal	8 Ch balanced line signal
Input impedance	10k Ohm
Audio output gain	Unity
Pilot tone interval	8 seconds / channel
Pilot tone frequency	20 KHz (+/-5%)
Detection line	70 / 100V line
Detection level	5 V rms min
Failure detection time	20 seconds (max)
Failure recovery time	20 seconds (max)
Zone load rating	1000W 100V line
Status indication LED	Normal; Fault; Changeover
Changeover alert	Buzzer with switch
Changeover section	Input and output simultaneously
Dimensions (W x H x D)	482 x 88 x 180 mm
Weight	3.55 kg

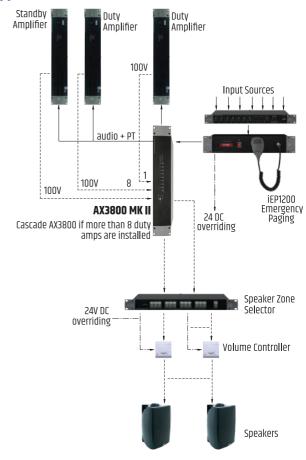
Packing Information

Carton size: 555 (L) x 295 (W) x 165 (H) mm

Gross weight : 4.50 kg 1 unit per carton

- Cater for **8 duty and 1** standby with easy cascade link
- Pilot tone generated at **intervals** to prevent phantom amplifier loading
- Overloading **protection** by allowing only single takeover
- Priority changeover
- Fast fault detection and recovery time from 7 to 15 seconds
- Input and output changeover; suitable for **matrix** system setup
- Input link switch making connection of sources easier
- Channel **isolation** switch for unused channels
- Individual channel **status** indicator for normal, fault and changeover
- Improved rating to **1000W** per channel

Application Schematic



LS4808 4816 8 / 16 Ch Speaker Line Surveillance



LS ANT CONTROL TO SERVICE AND A SERVICE AND

LS4808

8 Ch Speaker Line Surveillance

LS4808 / 4816 is a great tool to monitor the speaker line integrity such as ground leakage, short and open circuit as per requirement in EN54.

Detection is via impedance measurement, thus usage of end of line resistors are not required and circuit branching is allowed.

LS is powered by powerful processor and its unique measurement algorithm enables it to perform tasks at high speed with optimum accuracy.

The dual mode detection with basic and advance mode provides options for installer subject to site requirement or the nature of the project.

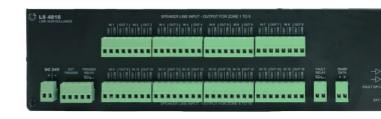
LS4816

16 Ch Speaker Line Surveillance

- Available in **8 or 16** channel options
- Impedance measurement method allows circuit branching
- No **end of line resistors** are required for the speaker circuit
- **Basic** and more accurate **advance** setup available
- **Short burst** test signals which minimize interruptions to PA operation
- Auto or manual fault detections with external test triggering
- Detection **intervals** setting from 1 min to 48 hours
- Faulty circuit **isolation** option
- Fault alert **indicators** with bi colour LEDs
- Aux 24V DC output for volume controller overriding during testing mode
- RS485 data port for remote triggering by PMX III via iPX5500 comm box

Technical Specifications

24V DC vi		
L-TV DC VI	a PS9400	
3.8W	4.9W	
8	16	
10 to 10	lk Ohm	
10 to 1000\	V 100V line	
+/- 5% wi	thin range	
1 K	Hz	
5V s	sine	
Auto / remote trigger		
0.5 seconds per channel (max)		
User preset from 1 min to 48 hours		
User preset at each channel		
Normal, Fault, B	Buzzer, Auto run	
2 x 16 characte	rs w back light	
Continuous buzze	r with OFF option	
3	A	
24V DC for individual channel		
RS485 : 19.2 kbps		
482 x 44 x 180 mm	482 x 88 x 180 mm	
2.15 kg	3.25 kg	
	8 10 to 10 10 to 10 10 to 1000V +/- 5% wi 1 K 5V 5 Auto / rem 0.5 seconds per User preset from User preset at Normal, Fault, E 2 x 16 characte Continuous buzze 3 24V DC for indir RS485 : 1	



Packing Information

Carton size : LS4808 - 555 (L) x 295 (W) x 95 (H) mm : LS4816 - 555 (L) x 295 (W) x 165 (H) mm

Gross weight : LS4808 - 2.75 kg : LS4816 - 4.00 kg





AM4120 is used to monitor amplifier outputs of 70 / 100V line at the rack which is equipped with level meter, amplifier output LED and speaker for audio monitoring. It can also be used as a tool to calibrate sound output level of each amplifier from the rack.

- Audio monitoring with volume control
- -12 inputs for 70 / 100V line amplifier outputs
- Dual mode monitoring with continuous signal indicator



Technical Specifications

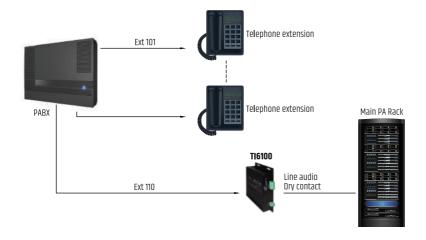
Operating voltage	24V DC via PS9400 PSU
Power consumption	50 mW
Amplifier inputs	12 : 70 / 100V line
	Audio : 1W speaker with 5 presets
Monitoring mode	Visual : segment LED level meter
	LED for all channels
Dimensions (W x H X D)	482 x 44 x 180 mm
Weight	2.15 kg

INTERFACE

T16000 PABX Telephone Interface

TI6100 is an interface for PABX system to PA, allowing paging from any keyphone extension to speakers. It is suitable for analogue / hybrid keyphone systems.

Application Schematic





Packing Information

AM4120:

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 2.80 kg 1 unit per carton

TI6100:

Carton size: 155 (L) x 105 (W) x 125 (H) mm

Gross weight: 0.90 kg 1 unit per carton

ZS5601 ZS5121 ZS5602

6 / 12 Ch Speaker Zone Selectors



ZS5602

6 Ch Uninterrupted Speaker Zone Selector





ZS5601

6 Ch Speaker Zone Selector

ZS5121

12 Ch Speaker Zone Selector

ZS5601 and **ZS5121** are trusted products for speaker zone selection that provides direct zone switching for single source PA setup via front panel switches or through remote port connected to Amperes PM series paging desk, or through Amperes TD decoders.

ZS5602 is suitable for uninterrupted paging setup, i.e. when an announcement to a zone is made, other areas with BGM that shall not be interrupted. This will require two sets of amplifiers (BGM and Paging) connected to the ZS5602

- **Expansion** to more zones if required
- Available in 6 (ZS5601, ZS5602) and 12 zones (ZS5121) with All Call
- Flexible amplifier to zone configuration, suitable for 3 or 4 wire systems
- Remote zone triggering port via external paging microphone or console
- Paging override by Amperes paging console with **priority override** indicator
- Emergency paging mic triggering port with dry contact for volume controller overriding application



Technical Specifications

	ZS5601	ZS5121	ZS5602
Operating voltage		24V DC adaptor via PS9400	
Power consumption	3.5W, 0.14A w All Call	6.8W, 0.28A w All Call	10W, 0.42A w All Call
Max load / channel	1000W 100V Line		
Number of zones	6	12	6
Amplifier inputs	6	12	6 BGM ; 6 Paging
Zone selection - Paging	Front panel switch and remote		
Zone selection - BGM	Front panel switch		
Cascade limitation	Unlimited		
Remote triggering	-\	ve triggered (common ground	1)
Indicators	Individual zone switch, Priority Zone LE		Zone LED
	Individua	al, All Call	
Switching mode	Local zone selection bypassed when remote Individual, All Call		Individual, All Call
	trigger is activated		
Dimensions (W x H x D)	482 x 44 x 180 mm		
Weight	1.95 kg	2.10 kg	2.20 kg

Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : ZS5601 - 2.55 kg : ZS5121 - 2.70 kg : ZS5602 - 2.70 kg

ZS5062 ZS5122

6 / 12 Ch Speaker Zone Selector





ZS5062

6 Ch Speaker Zone Selector

ZS5122

12 Ch Speaker Zone Selector

ZS5062 and **ZS5122** have been improved in its individual zone rating with 1000W 100V line to meet the demand to increase zone loading in today's installations. They differ from other zone selector, i.e. they have fall safe feature which would ensure zone is always connected for paging if the unit itself failed. RS485 port is available for remote triggering and monitoring via PMX software.

- 1000W 100V per zone rating
- **Zone monitoring** via PMX III software
- Local paging **override** bypassing BGM
- Flexible amplifier to zone configuration
- Fall safe zone trigger during power or unit failure
- Remote zone triggering via analogue and RS485 data
- Available in 6 and 12 zones; expandable to 248 zones





Technical Specifications

	ZS5062	ZS5122
Operating voltage	24V DC via PS9400	
Power consumption (idle)	3.29W	6.25W
Power consumption (All Call)	0.72W	0.96W
Current consumption (idle)	0.14A	0.26A
Current consumption (All Call)	0.03A	0.04A
Max load / channel	1000W 100V Line	
Number of zones	6	12
Amplifier inputs	6	12
Zone selection	Front panel switch & r	emote (zone & all call)
Max cascade	16 u	inits
Remote triggering	-ve triggered (c	ommon ground)
Indicators	Individual zone switc	h, all call, and priority
Data communications	RS485: 19.2 kl	ops baud rate
Switching mode	Individua	al, All Call
	Local zone bypassed when	remote trigger is activated
Operating temperature	-10° ~	· 60°C
Dimensions (W x H x D)	482 x 44 x 180 mm (1hu)	
Weight	1.95 kg	2.10 kg

Packing Information

Carton size : 550 (L) x 295 (W) x 95 (H) mm

Gross weight : ZS5062 - 2.55 kg : ZS5122 - 2.70 kg

TD64002 X 4 Ch Zone Decoder / Selector



- Integrated paging mic zone decoder and selector
- 2 x 4 channel setup, **configurable** to 1 x 8
- **Independent address** setting for both groups of zones
- Works as matrix zone extender
- Multi point paging from PD series of paging mic
- Compatible with **iPX5155** Paging / BGM client via RS485 controls
- Cascade for larger zone setup

TD6400 combines paging mic data decoder and zone selector in a single box. It has two groups of zones (2 x 4 zones) with independent address settings, thus providing flexibility in zone assignments.

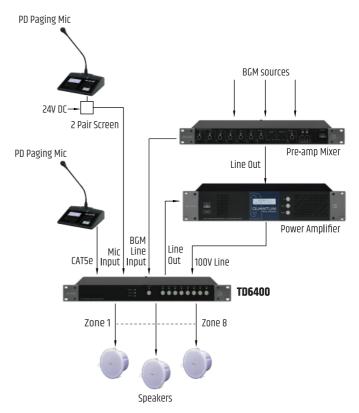
It is suitable for decentralized installations of multiple locations and it also functions as matrix zone extender. Link it via Amperes iPX5155 to enable remote zone controls via iPX microphone or PMX III software.



Technical Specifications

Operating voltage	24V DC
Consumption	6W (250mA)
Max load / channels	1000W 100V Line
Cascade quality	31 (248 zones)
Configuration	2 in x 4 zones
Input circuits	3 : 1 mic, 2 BGM
Audio Output	2
Number of zones	8
Amplifier inputs	8
Zone selection	Front panel switch & remote
Indicators	Individual zone switch
Switch mode	Individual, All Call local zone selection
	bypassed when remote trigger is activated
Input impedance (0hm)	Line : 10 K
Output impedance	600 Ohm balanced
Frequency response	70 ~ 15 KHz
Audio input	Line
Max audio output	Line 1.2V (balanced)
Data protocol	RS485
Baud rate	19.2 kbps
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.00 kg

Application Schematic



Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 2.60 kg 1 unit per carton

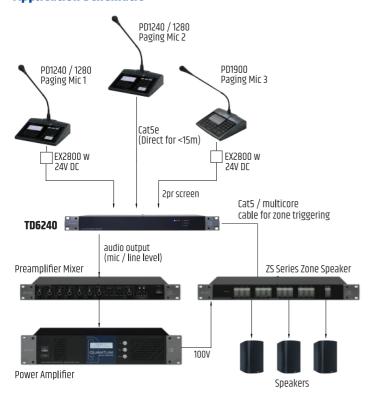




TD6240 is an intermediary equipment between Amperes PD series of paging microphones and Amperes ZS series of speaker zone selectors. Is has 3 PD input circuits, enabling multi point paging setup from different areas. Decoded zones are connected to zone selectors through RJ45 jacks for zone switching. For system exceeding 24 zones, TD6240 can be stacked up to enable 248 zones switching in total.

TD6240 has been improvised, now enabled the starting zone of the first channel of the device. This feature provides more flexibility in zone configuration, especially in iPX or Matrix environment.

Application Schematic



- **Priority setting** for multi point paging setup
- Selectable balanced audio output level (mic or line)
- Expandable and addressable to cater for more than 24 zones
- Compatible with most zone selectors with remote triggering port
- Connects directly to **ZS5601 / 5121 / 5062 / 5122** via remote triggering ports using RJ45 connector

Technical Specifications

Operating voltage	24V DC
Consumption	2.4W (100 mA)
Switching channels	24
Cascade / max zones	10 (max 248 zones)
Input circuit	3
Output connection	RJ45 to ZS zone selector
(Triggering)	NJ45 to 25 Zone Selector
Input impedance (0hm)	Line : 10 K
Output impedance	600 Ohm balanced
Frequency response	70 ~ 15 KHz
Audio input	Line balanced (+4 dBU)
Max audio output	Line balanced (+4 dBU)
Data protocol	RS485
Baud rate	19.2 kbps
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	1.90 kg

Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 2.5 kg 1 unit per carton

SQ9815 PS9400

8 Ch Sequential Power Switcher 24V DC Power Supply





SQ9815

Sequential Power Switcher

SQ9815 is a 8 Ch Sequential Power Switcher, it manages the powering sequence of every equipment in an orderly manner. SQ9815 comes in handy to prevent random power switching of components within a system which may cause premature damage to the equipment. In addition, surge protection at power source minimize potential damage to installed equipment due to spikes in power lines.

- ON / OFF sequential switching
- Lock mode to avoid accidental switching
- Cascade 2 units to form 16 channel setup or 8 to max of 64 channels
- Remote switching port via external noiseless contact
- 8 channel with 6A per channel; total load of 15A with surge protection
- AC output through IEC connectors with channel isolation via DIP switch
- Ch. 8 with delay **OFF option** for 2 min; suitable for video projector connection

cii. o wicii dejay eri

Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight: 3.55 kg 1 unit per carton



Technical Specifications

Operating voltage	220 ~ 240V AC
Power consumption	50 mW (without load)
Output voltage	230 / 240V AC
Max load / channel	6A
Max total load	15A
Output connection	IEC female socket
Max cascade	8 uts :total 64 channels
Surge protection	L-N, L-E, N-E.
Clamping voltage	870V AC
Turn on sequence	Step 1 to 8 incremental
Turn off sequence	Step 8 to 1 decremental
Step timing	2 seconds
Delay off option	Channel 8 via DIP switch
Delay off timer	2 minutes
Switch lock	Via front switch
Indicators	AC mains, Ch. on, Lock
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.80 kg exclude accessories





Technical Specifications

Operating voltage	220 ~ 240V AC
Output voltage	24V +/- 1%
Rating	4A nominal ; max 5.5A
No load consumption	50 mW
Efficiency	83%
Indicators	AC mains, battery input, DC output
Protection	Built in surge protection
	Short circuit
	Overload (105% ~ 150%)
	Over voltage (115% ~ 135%)
Output DC protection	Fuse
Terminals	Batt input and load ; barrier connectors
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.35 kg



PS9400 is a rack mounted 24V DC regulated power supply. It has built in changeover relay which shall be connected to back up 24V DC battery bank to allow continuous and uninterrupted power supply to the whole installation whenever the mains failed.

- 24V DC 4A output highly regulated PSU
- Built in various protections including output fuse
- Back up battery overriding relay

Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight: 3.00 kg 1 unit per carton

BC9740 24V DC Auto Battery Charger



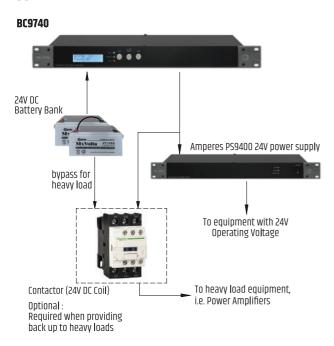
BC9740 is an innovative battery charger, specially designed for PA installation using 24V DC back up supply. It is compact in size yet highly efficient in charging and remote monitoring via PMX III is available.

Various protection circuits are incorporated such as polarity connection error and low battery cut off protection to prevent immature failure to battery pack.



- Constant DC voltage charging for 24 V battery bank
- 4A initial charging current with reducing rate
- Built in surge protection
- Output **short circuit** protection
- Thermal cut off against overheating
- Auto **low battery** disconnection with alert
- Battery reversed **polarity** protection
- RS485 comm port for remote monitoring by PMX III via iPX5500 comm box

Application Schematic



Technical Specifications

Operating voltage	220 ~ 240V AC
Charging voltage	27.8V DC
Charging current	4A ; (max 5A)
Idle power consumption	1.3W
Protections	Low battery auto disconnection,
	reverse polarity, short circuit
Indicators	AC mains, short circuit and low battery
Displays	Charging current
	Charging voltage
	Battery voltage
	Output current
	Battery reverse polarity
Communication	RS485 out; link to Amperes PMX III via
	iPX5500 comm. box for remote monitoring
E/M back up Amp rating	25A max
	(Use external contractor / relay if required)
Terminals	Battery input, EM load
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	4.50 kg

Packing Information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 5.20 kg 1 unit per carton