MATRIX & CONVENTIONAL

Precision ROUTING Absolute CONTROL

- VOICE ALARM CONTROLLER
- MATRIX SYSTEM
- PAGING MICS
- BGM & EVAC PLAYERS
- EVAC / FIRE ALARM INTERFACE
- PRE-AMP MIXER & AMPLIFIERS
- AMP CHANGEOVER & LINE MONITORING
- ZONE SELECTORS & DECODERS
- POWER SUPPLIES & CHARGER

ⓘ INTRODUCTION

Amperes offers in-market systems to suit every installation, whether for budget-friendly or more advanced requirements. From simple PA setups to complex systems that comply with authority standards, we provide reliable solutions for clear and quality audio delivery. Because safety matters to all, our EVAC announcement systems are designed to broadcast critical messages promptly and efficiently through coordinated and controlled equipment.

AC3801

8 Duty 1 Standby Manual Amplifier Changeover

The **AC3801** is a manual amplifier changeover unit built to ensure system reliability and operation continuity by switching to a standby amplifier if a duty unit fails. It manages up to 8 duty amplifiers with 1 standby and can be scaled for larger installations

With its priority changeover, it ensures a more essential duty amplifier is prioritised for takeover and does not cause standby unit being overloaded. Switching can be done manually via front panel or automatically when used with AFS-enabled amplifiers like Amperes QD2000 Series or QP2000 Series.

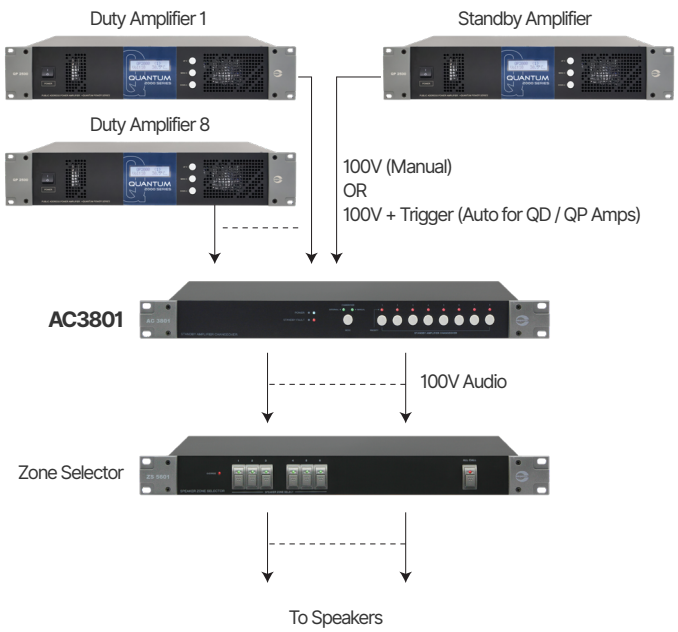
Key Features

- **8 duty and 1 standby** amplifiers per device
- **1000W** per channel rating
- **Manual changeover** (via front panel) or **automatic changeover** with AFS-enabled amplifier)
- **Priority switching to prevent overload** with single unit takeover (higher unit takes precedence)
- **Dual I/O changeover** with manual and auto switching
- Single standby amplifier can support more than 8 duty amplifiers with **cascading**

Technical Specifications

Operating voltage	24V DC, 0.2A
Power consumption	**Standby**: 82 mW, 3.4 mA **Operating**: 1.3W, 50 mA
Zone load rating	1000W at 100V line input
No. of amplifier inputs	8 duty , 1 standby (8+1)
Changeover indication	Front panel LED for duty amplifier being changeover
Switching mode	**Manual**: Via front panel switches **Auto**: Remote trigger via AFS-enabled amplifier
Cable connections	Phoenix connectors
Cascade capacity	Unlimited (recommended 3 units)
Cable size	Up to 2.5mm sq
Dimensions (W x H x D)	482 x 44 x 180 mm
Net weight	2.30 kg

Application Schematic for AC3801



Packing Information

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

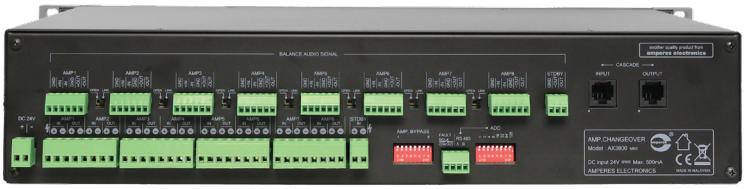
AX3800 MK II

8 Duty 1 Standby Automatic Amplifier Changeover

AX3800 MK II is an advanced amplifier changeover with automatic switching at both input and 100V output when a duty amplifier fails. It delivers faster fault detection and recovery ensuring seamsless and uninterrupted system operation.

With cascading support, a single standby amplifier can back up multiple duty amplifiers units (up to 16). It features priority single-takeover to prevent overload and a built-in smart 20kHz pilot tone to optimize amplifier performance.

Equipped with RS485 port for remote monitoring and built-in buzzer alarm for fault indication, AX3800 MK II is ideal for matrix systems and critical PA applications.



Key Features

- **8 duty amplifiers and 1 standby unit** (8+1), cascading up to 16 duty units
- **1000W 100V per channel** rating
- **Dual input and output** auto switching
- **Priority switching** to prevent overload with single unit takeover
- Built-in **20kHz interval pilot tone** to reduce amplifier workload
- **Fast fault detection and recovery** within 20 seconds
- **Input link** switch for easy source connections
- **Channel isolation** switch for unused channels
- **LED indicators** for status, faults, and changeovers
- Built-in **buzzer alarm** for fault detection with ON/OFF control
- **RS485** port for remote monitoring with PMX III or PMX IV

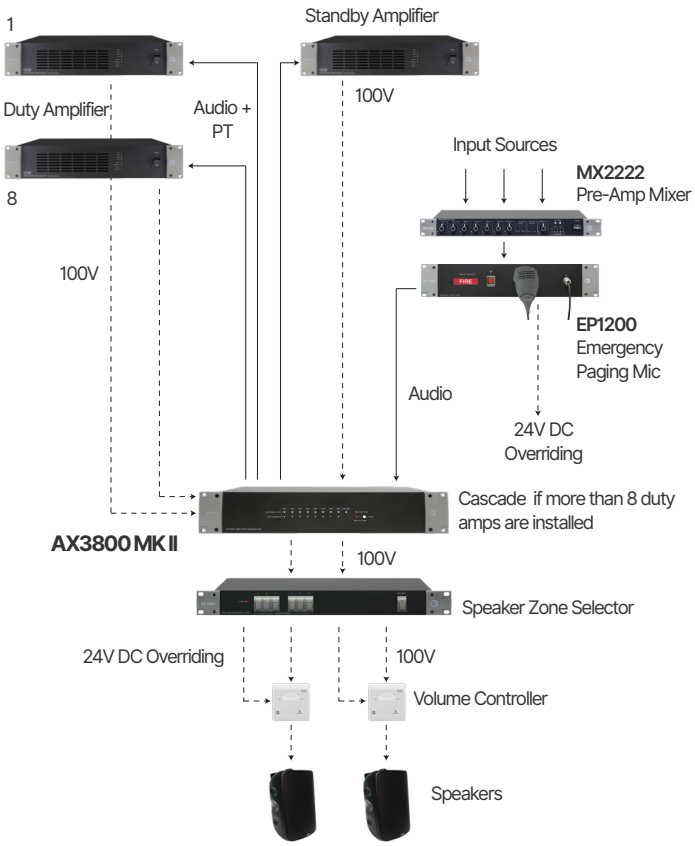
Technical Specifications

Operating voltage	24V DC, 1A
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	5V rms minimum
Failure / recovery time	20 seconds (max)
Communication	RS485 : 19.2 kbps
Zone load rating	1000W at 100V line input
Status indication LED	Normal / Fault / Changeover
Changeover alert	Buzzer alarm with ON/OFF switch
Changeover selection	Input and output simultaneously
Dimensions (W x H x D)	482 x 88 x 180 mm
Net weight	3.50 kg

Packing Information

Carton size	555 (L) x 295 (W) x 165 (H) mm
Gross weight	4.30 kg
Qty/carton	1 unit per carton

Application for AX3800 MK II



LS4808 LS4816

8 Ch / 16 Ch Speaker Line Surveillance

LS4808

8 Ch Speaker Line Surveillance

LS4816

16 Ch Speaker Line Surveillance

LS4808 (8-zone) and **LS4816** (16-zone) provide fast and accurate detection of faults such as ground leakage, short circuits, and open circuits using advanced impedance measurement method - simpler cabling works without the need for end-of-line resistors or blocking capacitors and allows flexible circuit branching. With improved processing and detection accuracy, they offer Basic and Advanced monitoring modes for flexible setup. A trigger function enables timed activation when connected to a timer. Fully compliant with EN54, they are ideal for reliable monitoring in PA and EVAC systems.

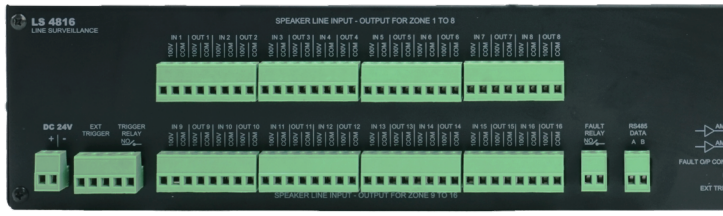
Key Features

- Detects faults via **impedance** measurements
- Speaker circuit branching **without end-of-line resistors** or blocking capacitors
- **Basic and Advanced** detection modes
- **Short test signals** to minimize disruption to PA operation
- **Manual or automatic** testing via external triggers
- Adjustable **detection intervals** from 1 minute to 48 hours
- Bi-color LED indicators for **fault status** display
- **24V DC AUX** output to override VC during testing
- **RS485** port for remote monitoring via PMX software via iPX5500

Rear Outlook

LS4808

LS4816



Technical Specifications

	LS4808	LS4816
Operating voltage	24V DC via PS9400	
Power consumption	3.8W	4.9W
Capacity channel	8 Channel	16 Channel
Impedance detection range	10 to 10k Ohm	
Power measurement range	10 to 1000W 100V line	
Measurement accuracy	5% within range	
Pilot tone injection frequency	1 kHz	
Pilot tone signal output level	5V sine	
Monitor triggering	Auto / remote trigger	
Transmittal detection period	0.5 seconds per channel (max)	
Detection interval	User preset from 1 min to 48 hours	
LED indicators	Normal, Fault, Buzzer, Auto run	
Display LCD	2 x 16 characters with back light	
Audible output signal	Continuous buzzer with OFF option	
Dry contact setting	3A	
DC output in detection mode	24V DC for individual channel	
Data interface and baud rate	RS485, 19.2 kbps	
Dimensions (W x H x D)	482 x 44 x 180 mm	482 x 88 x 180 mm
Net weight	2.50 kg	3.70 kg

Packing Information

LS4808

Carton size	555 (L) x 295 (W) x 95 (H) mm
Gross weight	3.0 kg
Qty/carton	1 unit per carton

LS4816

Carton size	555 (L) x 295 (W) x 165 (H) mm
Gross weight	4.30 kg
Qty/carton	1 unit per carton

AM4120

12 Ch Amplifier Monitor Panel

AM4120 is a 12-channel amplifier output monitor for 70V and 100V line amplifiers. It features LED level meters and a built-in 1W speaker, allowing users to visually check each output levels and listen to audio directly from the rack in real time.

Ideal for system calibration, which helps ensure precise output level settings for each amplifier.

Technical Specifications

Operating voltage	24V DC via PS9400
Power consumption	50 mW
Amplifier inputs	12 channels @ 70V or 100V line
Monitoring mode	Audio: 1W speaker with 5 presets Visual: 5 segment LED level meters LED for all channels
Dimensions (W x H x D)	482 x 44 x 180 mm
Net weight	2.45 kg

Key Features

- **12-channel** amplifier monitoring panel for 70V and 100V line outputs
- **Volume control** with 5 LED VU level meters for signal indication
- **Built-in high fidelity 1W speaker** for audio monitoring
- **Dual-mode monitoring** with continuous signal detection

Packing Information

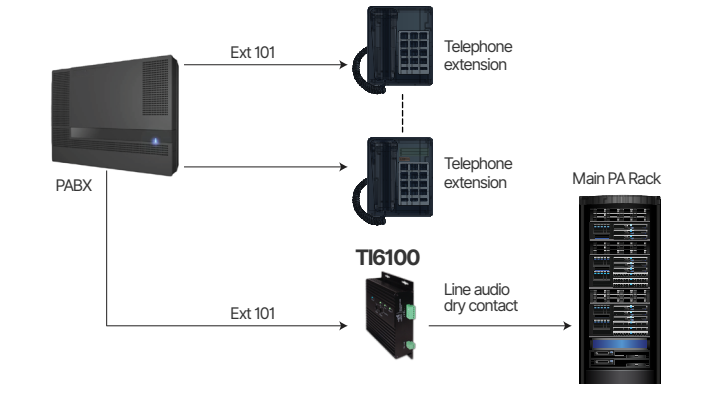
Carton size	555 (L) x 295 (W) x 95 (H) mm
Gross weight	2.95 kg
Qty/carton	1 unit per carton

TI6100

PABX Telephone Paging Interface

TI6100 is a PABX to PA interface that allows All-Call paging from any keyphone extension to PA speakers. Suitable for analogue or hybrid PABX systems, it includes noise reduction, relay activation and can be integrated with Amperes iPX Series IP-based paging systems.

Application Schematic



Packing Information

Carton size	155 (L) x 105 (W) x 125 (H) mm
Gross weight	900g
Qty/carton	1 unit per carton

ZS5601 ZS5121 ZS5602

6 Ch / 12 Ch Speaker Zone Selector

ZS5601

6 Ch Speaker Zone Selector

ZS5121

12 Ch Speaker Zone Selector

ZS5601 (6-zone) and **ZS5121** (12-zone) are speaker zone selectors for both BGM and paging. They ensure clear communication by automatically prioritizing paging audio over BGM in your selected zones. They support front panel and remote control via Amperes **PM Series** paging microphones or **TD Series** decoders, and can be cascaded for larger PA systems.

ZS5602

6 Ch Uninterrupted Speaker Zone Selector

ZS5602 (6-zone) is a speaker zone selector with **separate BGM and paging inputs**, allowing paging without interrupting BGM in other zones. It supports independent zone selection, remote triggering via Amperes **PM Series** paging microphones or **TD Series** decoders.

**Requires two amplifiers (BGM and paging) connected to the ZS5602*

Key Features

ZS5601 & ZS5121

- Available in 6-zone (ZS5601) and 12-zones (ZS5121) with All Call
- **Paging overrides BGM** with priority LED indication

ZS5602

- Supports 6 zones with All Call
- Allows paging to specific zones **without overriding BGM**
- **Separate inputs for BGM and paging amplifiers**

Common Features Across All Models

- Remote activation via PM series paging mic or TD series zone decoders
- Emergency mic port with dry contact for volume override
- Works with 3-wire or 4-wire PA systems

Rear Outlook

ZS5601

ZS5121

ZS5602

Technical Specifications

	ZS5601	ZS5121	ZS5602
Operating voltage	24V DC via PS9400		
Power consumption	3.5W, 0.14A with ALL CALL	6.8W, 0.28A with ALL CALL	10W, 0.42A with ALL CALL
Max load / Channel	1000W 100V line		
Number of zones	6 zones	12 zones	6 zones
Amplifier inputs	6 inputs	12 inputs	6 BGM , 6 Paging amplifiers
Zone selection (Paging)	Front panel switch and remote triggering via PM series paging mics & TD series decoders		
Zone selection (BGM)	Front panel switch		
Cascade limitation	Unlimited		
Remote triggering	-ve triggered (common ground)		
Switching indicators	Individual zone switch & priority		Front panel LED
Switching mode	Individual or ALL CALL *Local zone selection is bypassed when remote triggering is activated*		Individual or ALL CALL
Dimensions (W x H x D)	482 x 44 x 180 mm		
Net weight	2.30 kg	2.40 kg	2.20 kg

Packing Information

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

Gross weight
ZS5601 : 2.90 kg
ZS5121 : 3.0 kg
ZS5602 : 2.90 kg

Qty/carton
1 unit per carton

ZS5062 ZS5122

Speaker Zone Selector with Fail Safe

ZS5062

6 Ch Speaker Zone Selector with Fail Safe

ZS5122

12 Ch Speaker Zone Selector with Fail Safe

ZS5602 (6-zone) and **ZS5122** (12-zone) are high-power, fail-safe speaker zone selectors designed for uninterrupted emergency broadcasts. These units ensure all zones remain active during power loss or system failure. Both models support up to 1000W per zone on a 100V line and feature RS485 remote triggering and integration with Amperes PMX software for advanced monitoring.

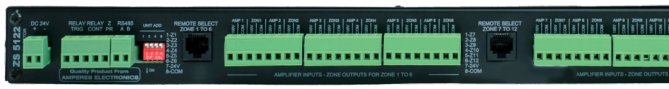
Key Features

- **1000W per zone** on a 100V line
- **Fail-safe operation** keeps speaker lines connected during power or unit failure
- **Expandable** up to 248 zones with flexible amp-to-zone setup (max 16 units)
- **Local paging overrides BGM** for priority announcements
- **Remote triggering via RS485** with monitoring through Amperes PMX software
- **Front panel and remote paging** control for easy operation

Rear Outlook

ZS5062

ZS5122



Technical Specifications

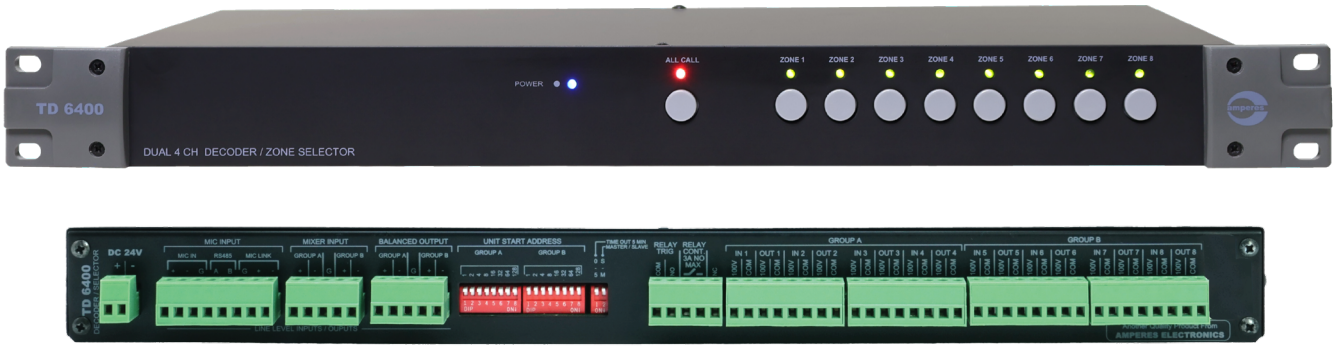
	ZS5062	ZS5122
Operating voltage	24V DC via PS9400	
Power consumption (Idle)	3.29W	6.25W
Power consumption (All call)	0.72W	0.96W
Current consumption (Idle)	0.14A	0.26A
Current consumption (All call)	0.03A	0.04A
Max load / channel	1000W at 100V line	
Number of zones	6 zones	12 zones
Amplifier inputs	6 inputs	12 inputs
Zone selection	Front panel switch and remote triggering (zone & all call)	
Cascade capacity	16 units	
Remote triggering	-ve triggered (common ground)	
Indicators	Individual zone switch, all call, and priority	
Data communications	RS485 19.2 kbps baud rate	
Switching mode	Individual or ALL CALL *Local zone selection is bypassed when remote triggering is activated*	
Dimensions (W x H x D)	482 x 44 x 180 mm	
Net weight	2.30 kg	2.50 kg

Packing Information

Carton size	555 (L) x 295 (W) x 95 (H) mm
Gross weight	**ZS5062**: 2.90 kg **ZS5122**: 3.0 kg
Qty/carton	1 unit per carton

TD6400

2 x 4 Ch 1000W Decoder / Zone Selector



TD6400 is a dual 4-channel (8-zone) decoder and zone selector designed for Amperes PD Series paging microphones. It features two independent 4-zone groups (2 x 4 Ch) with adjustable start addresses, offering highly flexible zone control configurations. Additionally, it serves as a matrix extender for the Amperes MxP2288.

When integrated with the Amperes iPX5155 BGM client via RS485, the TD6400 enables remote BGM switching through iPD microphones or PMX software. It also includes a paging override feature to ensure priority announcements are always delivered.

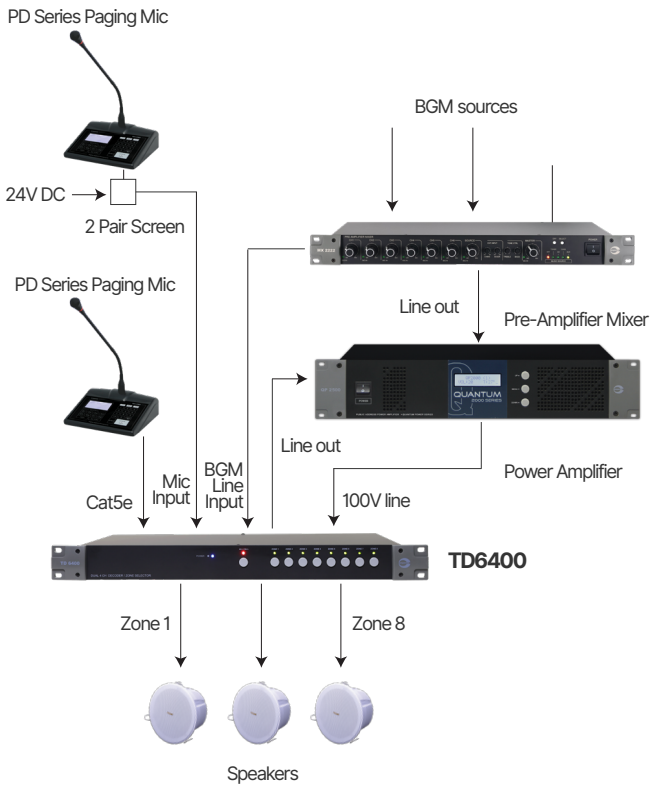
Key Features

- **2 x 4 Ch (8 zones)** setup or configurable to 1 x 8 Ch
- **Independent address setting** for both groups of zones
- **Customizable start addresses** to minimize unused zones
- Works as a **matrix extender via MxP2288** with flexible amp-to-zone setup
- Supports **multi-point paging priority** from PD series paging mics
- **Programmable All Call trigger** for remote or front panel activation
- Expandable up to **248 zones with 31 cascaded units**

Technical Specifications

Operating voltage	24V DC via PS9400
Power consumption	**Operating:** 6W (250 mA) **Standby:** 1.2W (50 mA)
Max load / channel	1000W at 100V line
Cascade	31 units (max 248 zones)
Configuration (Zones)	2 x 4 zones (8 zones)
Audio output	2 balanced line 0 dBU
Amplifier inputs	8 free configurations
Indicator	LED for zones switching, priority override
Switching mode	Local front button with All Call Remote RS485 for BGM and paging zone selection
Input impedance	10k Ohm (line)
Output impedance	600 Ohm balanced
Frequency response	70 - 15 kHz (Paging audio)
Audio inputs	1 x balanced mic input (line), 2 BGM (line)
Max audio output	1.2V balanced line (±4 dBU)
Data protocol & baud rate	RS485, 19.2 kbps
Dimensions (W x H x D)	482 x 44 x 180 mm
Net weight	2.35 kg

Application Schematic for TD6400



Packing Information

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

TD6240

24 Ch Data Zone Decoder

The **TD6240** is a 24-channel zone decoder designed for seamless integration with PD Series paging microphones. It enables smooth zone switching through ZS Series selectors via RJ45 connectivity.

Supporting multi-point paging across three independent PD input circuits, the unit is highly scalable—stackable up to 248 zones. With configurable start zones, it offers superior flexibility for complex iPX BGM/Paging clients and matrix system architectures.

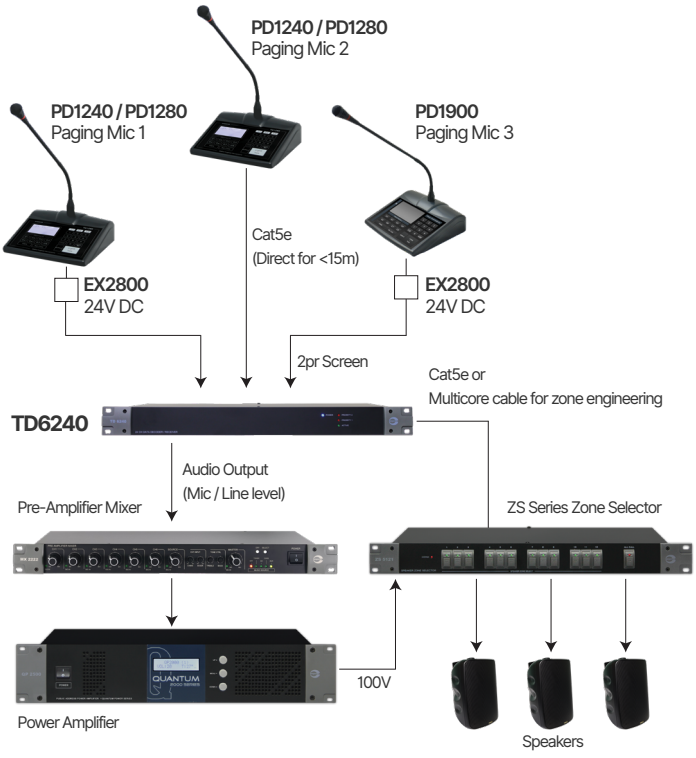
Key Features

- **24-channel zone decoder,** expandable up to 248 zones
- Multi-point paging with **3 PD Series mic inputs circuits**
- Selectable balanced audio output (mic or line)
- RJ45 remote trigger ports (PD Series to ZS Series zone selectors)
- Configurable start zone for iPX and matrix setups

Technical Specifications

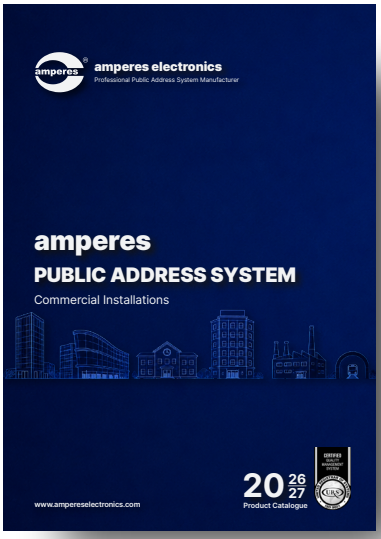
Operating voltage	24V DC via PS9400
Power consumption	**Operating:** 2.4W (100 mA) **Standby:** 0.8W (33 mA)
Switching channels	24 channels
Cascade	16 units (max 248 zones)
Input circuit	3
Output connection	RJ45 remote trigger ports ZS Series zone selectors
Input impedance	10k Ohm (line)
Output impedance	600 Ohm balanced
Frequency response	70 - 15 kHz (Paging audio)
Audio inputs	Balanced line (±4 dBU)
Max audio output	1.1V balanced line (±4 dBU)
Data protocol & baud rate	RS485, 19.2 kbps
Dimensions (W x H x D)	482 x 44 x 180 mm
Net weight	2.20 kg

Application Schematic for TD6240



Packing Information

Carton size	555 (L) x 295 (W) x 95 (H) mm
Gross weight	2.70 kg
Qty/carton	1 unit per carton



2026/2027 Product Catalogue
Public Address System

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