iPX Ethernet PA System

> Future-proof your facility's communication with the Amperes iPX Paging System. Engineered to meet modern IP standards, this decentralized PA solution eliminates infrastructure bottlenecks by connecting multiple equipment racks seamlessly across buildings via LAN. Cost-effective, scalable, and highly adaptable, it is the premier choice for complex environments including airports, resorts, and corporate high-rises.

The better advantages in adopting Amperes iPX System

- Ultra low latency audio transmission
- Simplex and duplex mode
- Multichannel audio broadcast
- Decentralized system
- Flexible expansions
- Remote monitoring and controls
- No distance limitation
- Mobility
- Choice of links - Ethernet cable, fiber or wireless

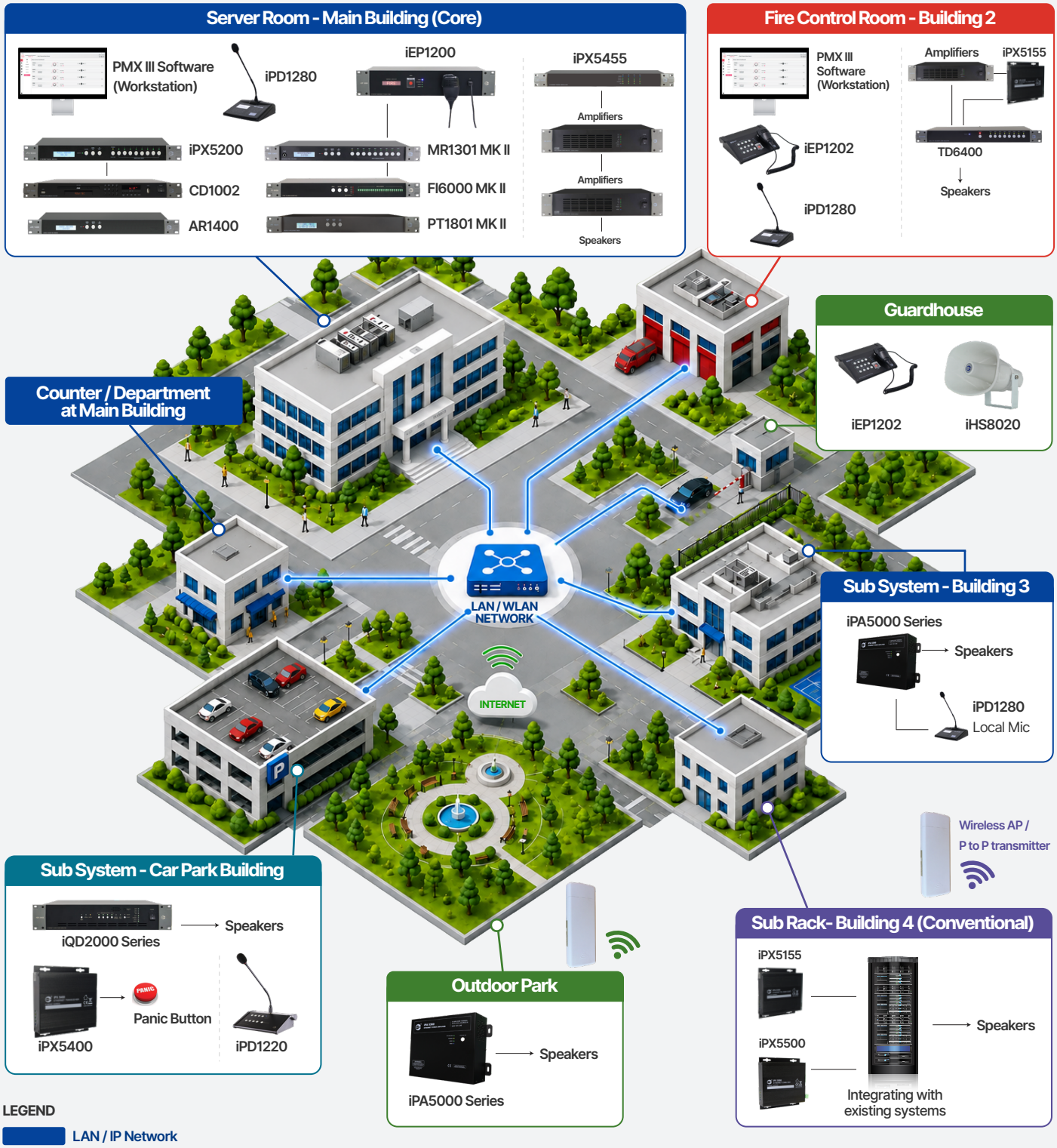
e²vis

The future of audio communication is coming soon. Get ready for the next-generation Amperes Ethernet PA series. Engineered with enhanced processing power, this upcoming system remains fully backward compatible with your current iPX Series setup. Upgrade effortlessly and keep your network future-proof with minimal changes.

iPX Ethernet PA Concept

IP-Based BGM, Public Address & EVAC Solution

Scalable network audio platform connecting multiple buildings, fire control rooms, guard houses, classrooms, car parks and existing PA systems over LAN, WLAN, and fiber infrastructure.



LEGEND

- LAN / IP Network
- Emergency Link
- Wireless Link
- Fiber Link

ⓘ The diagram above shows possible combinations of Amperes iPX components. Speakers and related equipment such as power supplies, backup batteries/UPS, monitor panels, and changeover units are not illustrated. Some devices (e.g., iPX5101 redundant unit, PT1801 MK II) are optional. Please consult our sales team for the correct system configuration.

iPX5101
IP Paging Controller / Server

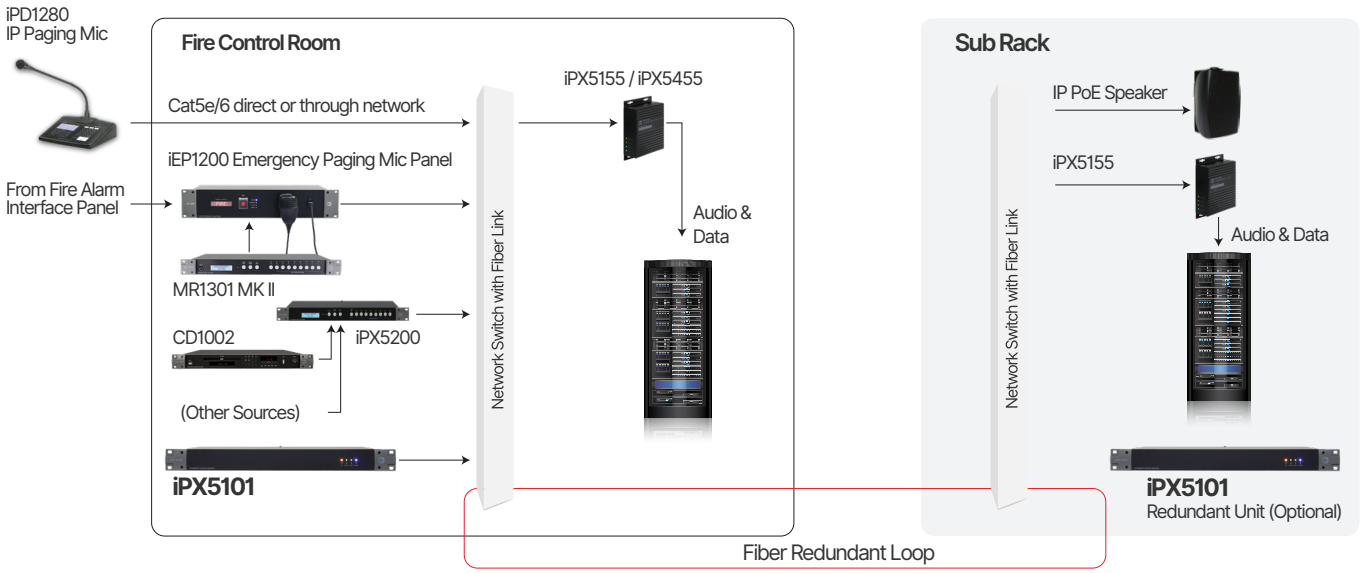
iPX5101 serves as the central network controller for Amperes IP-based PA systems, managing all connected IP devices across a LAN. Acting as a traffic controller for paging clients—such as iPD paging microphones, iPX5155, and iEP1202 modules—it monitors network activity and routes data based on priority levels, traffic conditions, and zone configurations. The unit efficiently handles priority access, traffic control, logging, and audio streaming, with full support for both Multicast and Unicast modes.

System configuration is easily managed via a user-friendly web browser. Because only one iPX5101 is required per system, it provides a highly reliable, scalable core for your IP audio network, backed by regular firmware updates for continuous feature enhancements.

Key Features

- **Ultra-low latency** audio and data transmission
- **Single unit controls** the entire system with **automatic client detection**
- Easy setup via **web browser**
- Real-time connectivity and **system status monitoring**
- Compatible with **Multicast and Unicast streaming modes**

Application Schematic for iPX5101



Technical Specifications

Operating voltage	24V DC (18-24V DC)
Current consumption	60mA (1.5W)
Power consumption	1.5W
LAN interface	RJ45 (10 / 100 Base-T)
Common protocols	TCP/IP, UDP, IGMP, HTTP
Priority protocols	UDMP, ADP
Client connection	248 max clients
User interface	Web browser interface (Google Chrome)
Firmware update	Via web browser
Operating temperature	-10°C to 60°C
Dimensions (W x H x D)	482 x 44 x 180 mm
Net weight	1.90 kg

Packing Information

Carton size	555 (L) x 295 (W) x 95 (H) mm
Gross weight	2.50 kg
Qty/carton	1 unit per carton

iPX5200

IP Music Server (Network Audio Inserter)

e²vis Compatible

iPX5200 is a Network Audio Inserter that streams analog BGM sources over LAN to be extracted by devices like the iPX5155. iQD amplifiers and IP speakers. It supports high-quality audio streaming of up to 320 kbps MP3 in multicast mode, ensuring clear and consistent playback across multiple zones.

Equipped with 4 analog line inputs and an SD card slot, the iPX5200 can manage 8 client groups, each programmable for up to 32 output devices. As a centralized audio source, it gives administrators full control over background music distribution, making it ideal for large-scale PA system installations.

iPX5200 broadcasts BGM over your network and can operate with or without the iPX5101 controller.

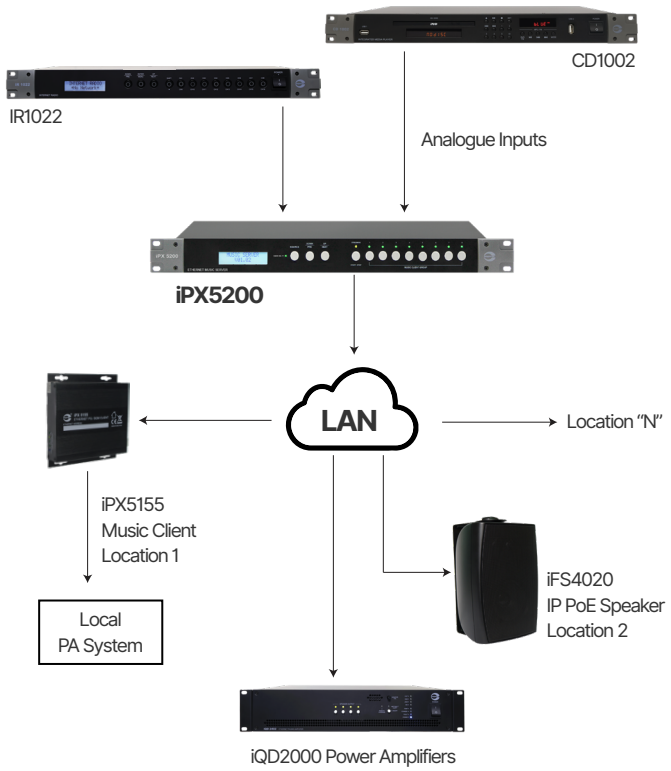
Key Features

- **Ultra-low latency** audio processing
- Streams audio to up to **248 clients via multicast**
- **4 selectable analog line inputs** and SD card playback
- Supports **multi-format audio streaming and encoding**
- Groups clients into **8 groups** (up to 32 devices per group)
- Centralized **BGM control and distribution**
- **Web browser configuration** with user-friendly GUI

Technical Specifications

Operating voltage	24V DC (18-30V DC)
Current consumption	100mA
LAN interface	RJ45, 10/100Base-T (100Mbps)
Common protocols	TCP/IP, UDP, IGMP, HTTP
Priority protocols	UDMP, ADP
Analogue In / Out (Peak-to-Peak)	1.25V rms (line level, unbalanced)
Input impedance	10k Ohm
Input load capacitance	100pF
THD	0.1%
S/N ratio	83 dB
Digital format	IMA ADPCM / MP3 (CBR, max 320kbps) / WAV
Client connection	248 max clients
User interface	Web browser interface (Google Chrome)
Firmware upgrade	Via web browser
Operating temperature	-10°C to 60°C
Relative humidity	80%
Dimensions (W x H x D)	482 x 44 x 180 mm
Net weight	2.0 kg

Application Schematic for iPX5200



Packing Information

Carton size	555 (L) x 295 (W) x 165 (H) mm
Gross weight	2.75 kg
Qty/carton	1 unit per carton

iEP1200

IP Emergency Paging Microphone Panel

e²vis Compatible

iEP1200 is a LAN-enabled version of the EP1200 Emergency Panel, providing highest-priority emergency paging that overrides all ongoing BGM and announcements.

It can be set as the top-priority device in local or global PA systems and includes analog ports for message player input, emergency dry contact, and aux RS485 output. Configuration is done via a web browser, ensuring reliable and immediate access during fire or emergency situations.

Technical Specifications

Operating voltage	24V DC (500mA)
Power consumption	**Idle:** 1.5W **Active:** 5W
Current consumption	**Idle:** 60mA **Active:** 210mA
Microphone	Handheld condenser mic (omni-directional)
Siren frequency	Continuous at 8 kHz paging mic
Outputs	Balanced line out (1.2V)
Priority sequence	Paging Mic > Message > Siren > Pre-Amp IN
Indicators	FIRE LED, Front test switch / remote contact
Analogue line input (max)	1.25V rms unbalanced (+4 dBu)
Input impedance	10k Ohm
THD	<1%
S/N ratio	83 dB
LAN interface	RJ45 (10/100 Base-T)
RS485	19.2 kbps via Pheonix connector
User interface	Web browser (Google Chrome etc)
Common protocols	TCP/IP, UDP, IGMP, HTTP
Priority protocols	UDMP, ADP
Dimensions (W x H x D)	482 x 88 x 180 mm
Net weight	3.20 kg

Packing Information

Carton size	555 (L) x 295 (W) x 165 (H) mm
Gross weight	4.20 kg
Qty/carton	1 unit per carton

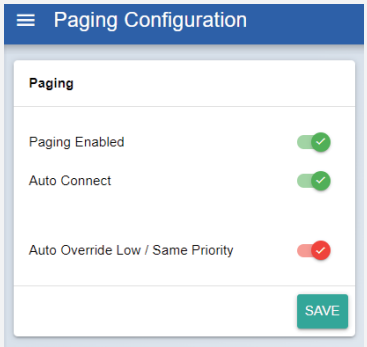
Key Features

- **Local or global highest-priority override paging** during EVAC
- **Ultra-low latency** audio processing
- Built-in constant **siren tone generator**
- **Dual-mode siren tone activation** (automated & manual)
- Large **FIRE** indicator
- **Dry contact output** when paging mic is activated
- **RS485** communication port
- Independent output level controls for **siren, messages, and paging mic**
- **Web browser configuration** for easy setup
- Compatible with both **IP and conventional** paging systems

Paging Enable: Must remain enabled for paging to function.

Auto Connect: Automatically connects to iEP1200 to the Paging Server, or allows manual IP setup if disable.

Auto Override (Low/Same Priority): Enables iEP1200 to override iPD/PD paging with highest priority.



iEP1202

IP Emergency Desktop Paging Microphone

iEP1202 is desktop IP emergency paging microphone designed for quick access to PA systems from control rooms, security desks, or guard houses.

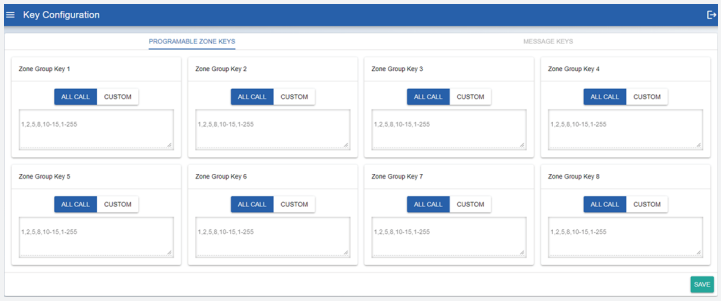
It features 8 programmable zone groups and supports up to 4 pre-recorded messages. With ultra-low latency IP streaming and highest-priority override over BGM and normal paging, it ensures fast and reliable emergency communication. Configuration is easily done via a web browser.

e²vis Compatible

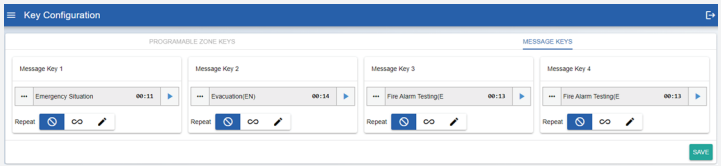
Key Features

- Supports up to **8 programmable zone groups** for targeted paging
- **Group paging** or **All Call** selection
- **Highest-priority override** over other paging sources
- Stores up to **4 messages** (up to 2 minutes each)
- **Programmable message buttons** with flexible playback modes
- **Built-in siren tone** with highest-priority all-zone activation
- **Ultra-low latency** audio streaming
- Separate **volume controls for paging and chime**
- **Web browser configuration** for easy setup

Key Configuration of Programmable Zone Keys: Assign specific zones to programmable zone group keys for targeted or all-call paging.



Key Configuration of Message Keys: Assign specific zones to programmable zone group keys for targeted or all-call paging.



Technical Specifications

Operating voltage	24V DC 100mA
Power consumption	**Idle:** 1.3W **Active:** 1.8W
Current consumption	**Idle:** 53mA **Active:** 72mA
Microphone	Handheld condenser mic (omni-directional)
Siren frequency	Continuous at 8 kHz
LAN interface	RJ45 (10 / 100 Base-T)
Protocols	TCP / IP, UDP, IGMP, HTTP
Priority protocols	ADMP, ADP
Transmission mode	Unicast & Multicast
Paging encoding format	G.722
Audio conversion format	IMA ADPCM, 36 kHz / 16-bit
Zone groupings	8 groups
Zones per group	128 zones/group (248 for All Call)
Duration per message	2 minutes
Total duration	590 seconds
Max files	20 files
Message storage	4 (configuration via browser)
Upload format	MP3 (64k Bit/s), WAV
User interface	Web browser interface (Google Chrome)
Dimensions (W x H x D)	248 × 65 × 190 mm (excluding microphone)
Net weight	900g

Packing Information

Carton size	555 (L) x 270 (W) x 85 (H) mm
Gross weight	2.04 kg (including adapter)
Qty/carton	1 unit per carton

iPM1980

IP Network Touchscreen Paging Microphone

iPM1980 is a sleek Ethernet-based IP paging console with a vibrant 10.5" touch screen, designed to meet modern performance and design standards in today's paging systems. It features an intuitive GUI with zone mapping, button controls, and a numeric keypad for easy operation.

Key functions include multi-channel music streaming, message playback, and built-in media storage—complementing the system's PMX III or iPX5200. Powered by PoE, iPM1980 offers flexible placement anywhere on the network, making it a powerful, user-friendly solution for advanced paging applications.

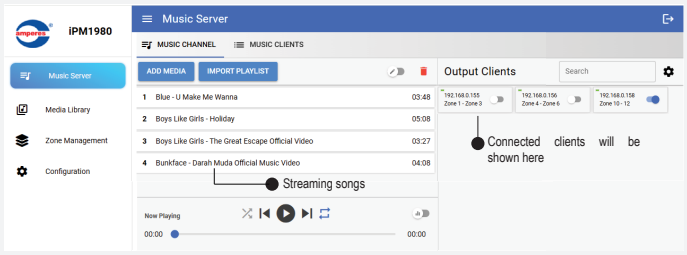
Key Features

- **10" vivid capacitive touchscreen** display
- Advanced GUI based on optimized PMX software
- Paging interface with **zone mapping, buttons, and numeric keypad**
- **Individual zone or group** paging
- **Multi-channel music streaming** with EQ control
- **Built-in message playback** and media library storage
- **Paging activity log** recording
- **Password protection** for secure access
- **Remote configuration** via web browser
- Powered by **PoE+ or 24V DC local supply**

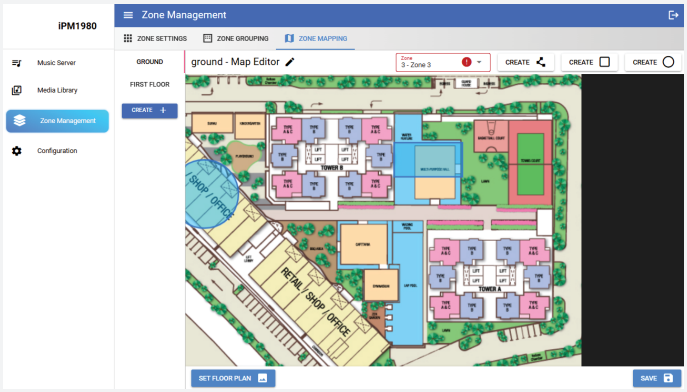
Technical Specifications

Operating voltage	24V DC
Power consumption	20W (0.8A)
Power supply	24V DC Adaptor or PoE+
Touch panel	10" vivid color capacitive touchscreen panel
Music streaming	1 Channel
Paging zones	250 zones
Paging grouping	Unlimited
Message	Unlimited
Chime	User presets
Volume controls	Chime and paging
Data storage	32GB
Network	10/100 Base-T
S/N ratio	>80 dB
Frequency response	100 Hz – 16 kHz
User interface	Web browser interface (Google Chrome)
Microphone	Removable condenser microphone (370mm)
Operating temperature	0°C to 45°C
Relative humidity	<90%
Cooling	Temperature-controlled fan
Dimensions (W x H x D)	280 x 90 x 175 mm (excluding microphone)
Net weight	1.65 kg

Music Server: Streams music to iPX5155, IP speakers, and iQD2000 amplifiers, with each client connected to only one music source at a time.



Zone Mapping: Easily select and identify zones for paging through a graphical zone map with floor plan import support.



Packing Information

Carton size	455 (L) x 265 (W) x 115 (H) mm
Gross weight	2.40 kg (including adapter)
Qty/carton	1 unit per carton

iPD1280

IP Desktop Paging Microphone with Soft Touch Keys

e²vis Compatible

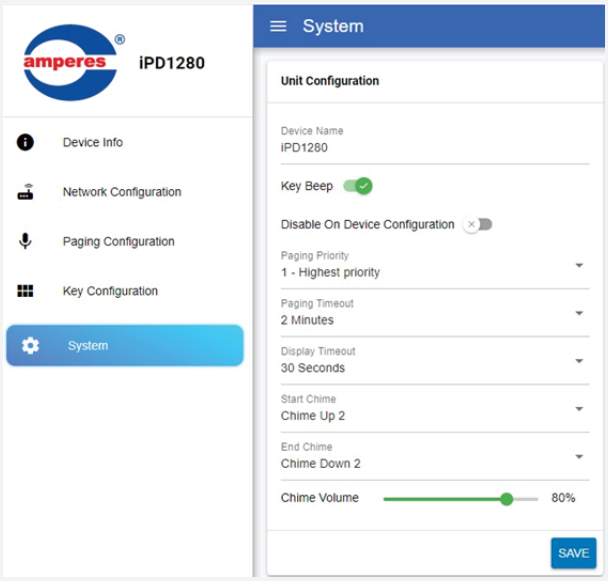
iPD1280 s a LAN-based paging console of the conventional PD1280 for Amperes iPX systems, featuring programmable zone grouping, priority control, a large LCD display, and ultra-low latency paging.

It supports up to 50 consoles with the iPX5101 controller, making it ideal for medium to large installations such as factories, airports, and hospitals.

Key Features

- **3" LCD display** for monitoring and configuration
- Electronic **soft-touch selection buttons**
- **Ultra-low latency processing** for real-time paging
- Supports **multi-point paging**
- Priority levels with **priority override support**
- **Customizable zone naming** for easy identification
- **Built-in paging chime** with adjustable **mic and chime volume**
- **Condenser gooseneck microphone** with LED ring for status indication
- **User-friendly GUI f**or easy setup and configuration

Unit Configuration: Device configuration allows setting unique device ID/name, keypad beep, priority level, paging and display timeout, as well as chime type and volume.



Technical Specifications

Operating voltage	24V DC
Power consumption	2.0W
24V power connector	1 x male barrel jack
Zone selection	Numerical keypad for zone, group, siren, All Call, repeat, Chime + Talk
Switching selection	Sensor touch keypad
Microphone	Gooseneck condenser mic (unidirectional)
Mic sensitivity	-72 dBu
Chime	4-tone up and down
LED indicator	Zone, power, audio, data, gooseneck ring LED
Displays	3" LCD display (white backlight illumination)
Frequency response	100 - 12 kHz (± 3dB @ 1 kHz)
S/N ratio	>70 dB @ 1 kHz
Audio conversion format	IMA ADPCM, 3 6kHz, 16-bit
Audio output controls	Mic from local input , Chime from Web
LAN interface	RJ45, 10/100 Base-T
Protocols	TCP/IP, UDP, IGMP, HTTP
Priority protocols	ADMP, ADP
Transmission mode	Unicast and Multicast
User interface	Web browser (Google Chrome V90+)
Gooseneck mic length	370mm
Dimensions (W x H x D)	230 x 192 x 65 mm (excluding microphone)
Net weight	840g

Packing Information

Carton size	445 (L) x 260 (W) x 85 (H) mm
Gross weight	1.46 kg (including adapter)
Qty/carton	1 unit per carton

iPD1220 iPD1230
IP Network Paging Microphone

iPD1220 and **iPD1230** are Ethernet paging stations designed for localized zone paging within the Amperes iPX system.

Both models feature programmable zone/group call buttons and four message banks up to 590 seconds for quick announcement playback. Configuration is easily done via a web browser, and both units can be powered by a local adapter or PoE switch, offering flexible installation anywhere within the network.

iPD1220 is compact desktop unit with a gooseneck microphone, ideal for counters, nurse stations, and service desks. iPD1230 is a wall-mounted version with a handheld PPT microphone, suited for hospitals, factories, warehouses, schools, and commercial facilities.

Together, they provide flexible and precise targetted zone paging.

Key Features

- **Localized zone paging station** (desktop or wall mount)
- **Condenser microphone** for iPD1220 and **Dynamic** microphone for iPD1230
- **4 programmable zone group** selections (up to 8 zones per group)
- **4 message banks** (total 590 seconds recording)
- **Web browser** configuration
- Adjustable **microphone volume**
- Powered via **local adapter or PoE** (with splitter)

e²vis Compatible

iPD1220
IP Network Desktop Paging Microphone

Technical Specifications

	iPD1220	iPD1230
Operating voltage	24V DC	
Current consumption	0.1A (2.4W)	
Voltage source	Local adaptor or PoE (via split connector)	
Microphone	Condensor Gooseneck w screw base (Omni directional)	Handheld push-to-talk (PTT) (Dynamic)
Connectivity	10/100 Base-T	
Protocols	Unicast and Multicast	
Transmission mode	TCP/IP, UDP, IGMP, HTTP	
Zone grouping	4 groups	
Zones per group	8 / All-Call	
Audio conversion	IMA ADPCM, 36 kHz, 16-bit	
Message group	4 groups	
Message duration	590 seconds in total	
Max files	20 files	
File format	MP3, 64 kbps	
User interface	Web browser interface (Google Chrome V90+)	
Operating temperature	-10°C to 60°C	
Relative humidity	<80%	
Gooseneck mic length	370 mm	N/A
Dimensions (W x H x D)	248 x 65 x 190 mm (excl. mic)	220 x 180 x 40 mm (excl. mic)
Net weight	900g	1.0 kg

Packing Information

Carton size 445 (L) x 260 (W) x 85 (H) mm
Gross weight 1.90 kg (**iPD1220**) / 1.75 kg (**iPD1230**)
Qty/carton 1 unit per carton

iPD1230
IP Network Wall Mount Paging Panel

iPX5155 iPX5455 iPX5500

IP Paging /BGM Clients & Data Communication Box

iPX5155

Single Ch IP Paging & BGM Client

iPX5455

4 Ch IP Paging & BGM Client

e²vis Compatible

iPX5155 and **iPX5455** are BGM and Paging clients (Ethernet Audio Extractors) for Amperes IP PA systems. They receive BGM and Paging audio from PMX software, iPD paging mic or iPX5200 and deliver balanced audio output to amplifiers with RS485 data to zone decoders for zone selection, while prioritize paging over BGM.

iPX5155 is a single-channel unit with audio transmit capability, while iPX5455 offers four independent channels with unique IP address in a compact 1U rack design for larger systems.

iPX5500

IP RS485 Data Communication Box

iPX5500 is a LAN-to-RS485 interface that converts RS485 data to IP for remote monitoring and control via PMX software.

It supports up to 16 RS485 devices, including Amperes and third-party equipment such as QP2000 amplifiers, LS4808/4816 line monitoring, AX3800 amplifier fault changeover and BC9740 chargers, allowing easy integration into networked PA systems.

Technical Specifications

	iPX5455	iPX5155	iPX5500
Operating voltage	24V DC		
Current consumption	240mA (6W)	60mA (1.5W)	100mA
Channels	4 channels (independent)	1 channel	16 RS485 nodes (max)
LAN interface	RS485, 19.2 kbps, 10/100 Base-T		
Protocols	TCP/IP, UDP, IGMP, HTTP, ADMP		
Broadcast mode	Unicast & Multicast		Multicast
Analogue In/Out (peak-to-peak)	1.25V rms (+4 dBu)		N/A
Input impedance	300 Ohm		
Input capacitance	100 pF		
THD + Noise	<1% (0.1%)		
Audio format	IMA ADPCM / MP3 (max 320 kbps) / WAV		
S/N ratio	83 dB		
Paging encoding	G.722		
User interface	Web browser interface (Google Chrome V90+ recommended)		
Operating temp. & humidity	-20°C to 80°C | <70%		
Dimensions (W x H x D)	482 × 44 × 180 mm	120 × 28 × 132 mm	
Net weight	2.35 kg	300g (excluding adapter)	

Packing Information

iPX5155 / iPX5500

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

Gross weight
1.0 kg (including adapter)

Qty/carton
1 unit per carton for each model

iPX5455

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

Gross weight
3.10 kg

Qty/carton
1 unit per carton

iPX5400
IP Audio & Data Transceiver

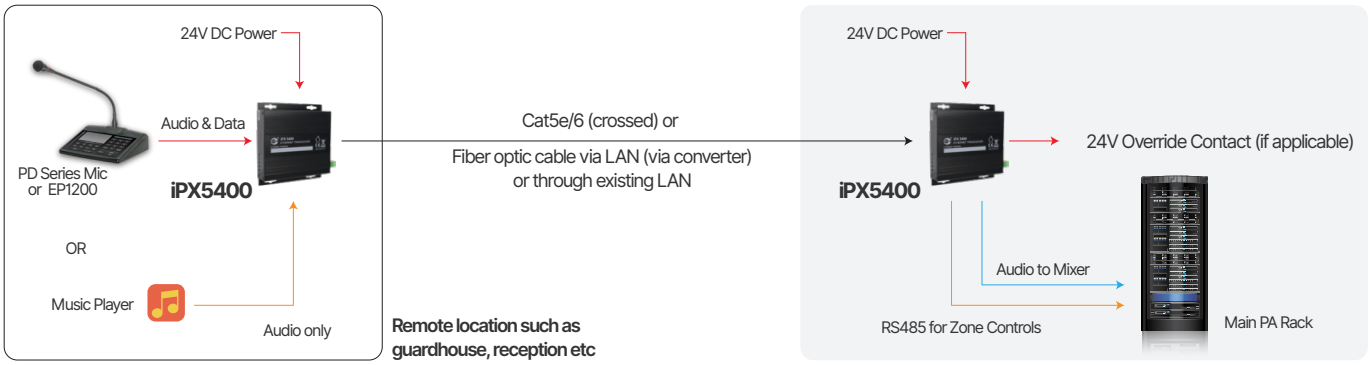
iPX5400 is a pair-based duplex IP transceiver designed to transmit audio and RS485 data over LAN, direct UTP connection, or fiber (via converter) for long-distance communication. It enables peer-to-peer paging and audio transmission without requiring a full IP controller, making it a simple solution for remote installations.

Ideal for applications such as linking a guard house to a main building via fiber (reducing lightning surge risks), rack-to-rack transmission over existing LAN infrastructure, or integration with wireless access points where new cabling is not feasible.

Key Features

- **Ultra-low latency** audio and data transmission (≈20 ms)
- Supports **simplex (music)** and **full-duplex (paging + RS485 data)**
- Two streaming modes: **Always-On or trigger-activated (API supported)**
- **Dry contact input** for remote triggering
- **Relay output** for external device control
- Supports **automatic link crossover**
- Easy setup via **web browser** and PMX software compatible
- **Operates independently** without network switch or IP server (iPX5101 MK II controller)

Application Schematic: Peer-to-Peer Direct Connect



Remote location such as guardhouse, reception etc

Technical Specifications

Operating voltage	24V DC (18-24V DC)
Current consumption	60mA (1.5W)
Data interface	RJ45 (10/100Base-T)
Protocols	TCP/IP, UDP, IGMP, HTTP
Priority protocols	UDMP, ADP
Analogue In / Out	1.25V rms (line level)
Input impedance	10k Ohm
Input capacitance	100 pF
THD + Noise	< 1% (0.1%)

S/N ratio	83 dB
Conversion format	WAV PCM, 48kHz, 16-bit (bidirectional & half duplex)
Data communications	UART RS485 (bidirectional & full duplex)
User interface	Web browser interface (Google Chrome)
Firmware upgrade	Via web browser
Operating temperature	-10°C to 60°C
Relative humidity	<70%
Dimensions (W x H x D)	120 x 28 x 132 mm
Net weight	300g

Packing Information

Carton size	155 (L) x 105 (W) x 125 (H) mm
Gross weight	1.0 kg (including adapter)
Qty/carton	1 unit per carton

iPA5120 iPA5240 iPA5360

IP Network Power Amplifier Terminal

iPA5000 Series are compact IP amplifier terminals with Class D amplification, which is lightweight, power efficient and deliver wide frequency response, which is suitable for full range speakers.

Each unit features a local Mic/Line input for paging or music, automatically overridden by central or emergency paging, with built-in relay and dry contact for EN54-compliant volume override.

Setup is managed easily via a web-based interface.Ideal for decentralized PA systems, this unit is perfect for tight spaces like risers, ticketing

Key Features

- Supports **100V and 4 Ohm** speaker outputs
- Delivers **remote BGM and paging** via LAN
- **Local Mic/Line input** for paging or music insertion
- **Automatic priority override** for emergency paging
- **Dry contact override** for external volume controllers

e²vis Compatible

Model Variants

iPA5000 Series	**iPA5120**	120W 100V Line
	iPA5240	240W 100V Line
	iPA5360	360W 100V Line

Bottom Outlook

Technical Specifications

	iPA5120	iPA5240	iPA5360
Power rating	120W 100V	240W 100V	360W 100V
Operating voltage	220 - 240V AC, 50/60 Hz		
Power consumption (Load)	160W (1.1A)	285W (2.0A)	450W (2.9A)
Power consumption (Standby)	18W (0.25A)		
Analogue input sensitivity	Balanced - **Line:** 1V rms, **Mic:** 50mV rms		
Input impedance	**Line:** 10k Ohm, **Mic:** 6k Ohm		
Gain controls	-40 to 4 dBu		
THD + Noise (at rated power)	<1%		
S/N ratio	>68%		
Frequency response	120 - 20 kHz (± 3 dB)		
Output voltage (at 4 Ohm)	50V max		
Network / paging protocol	TCP/IP, UDP, HTTP, ADP		
Playback format	WAV, MP3		
Tone / volume controls	5-band EQ / Local Input / Streaming input / Speaker output		
Local / remote stream selection	Push button		
Line / mic level selection	Slide switch		
Relay contact	3A on emergency paging		
User interface	Web browser interface (Google Chrome V90+ preferred)		
Protections	Thermal (70°C), overcurrent, short circuit, AC fuse		
Indicators	Power, link, paging server, streaming, and local input status indicators		
Cooling system	Thermostat-controlled auto fan, activates at 45°C		
Operating temp. & humidity	-10°C to 70°C | <70%		
Dimensions (W x H x D)	250 x 83 x 200 mm (excluding hinge)		
Net weight	2.95 kg		

Packing Information

Carton size
295 (L) x 270 (W) x 120 (H) mm

Gross weight
3.35 kg

Qty/carton
1 unit per carton for each model

iQD2402 iQD2405 iQD2407 iQD2410

iQD2000 Series - IP Network 4 Zone Class D Power Amplifier

e²vis Compatible

iQD2000 Series is an IP based amplifiers designed for decentralized Amperes iPX systems, merging key components of audio client, decoder and selector as well as Class D power amplifier in a single power pack.

Each model supports 4 zone outputs with A/B terminals (EN54 compliant) and integrates with PMX III for remote monitoring of volume, temperature, and speaker line status.

Key Features

- Supports **24V DC** backup power
- 4 zone outputs with **A/B terminals** (fuse protected)
- Balanced line audio output to external or standby amplifier
- Built-in **Class D amplifier auto fault sensor (AFS)** with standby changeover relay
- **Web-based control** and remote monitoring via PMX software
- **Speaker line monitoring** (Detects open or short speaker lines)
- **API** support for third-party integration

Model Variants

iQD2000 Series	**iQD2402**	250W 100V Line
	iQD2405	500W 100V Line
	iQD2407	750W 100V Line
	iQD2410	1000W 100V Line

Packing Information

Carton size	555 (L) x 555 (W) x 195 (H) mm
Gross weight	11.05 kg
Qty/carton	1 unit per carton

Technical Specifications

iQD2000 Series	iQD2402	iQD2405	iQD2407	iQD2410
Power rating	250W 100V line	500W 100V line	750W 100V line	1000W 100V line
Operating voltage	220 - 240V AC 50/60 Hz or 24 - 30V DC backup supply			
Power consumption (240V AC)	450 VA (1.9A)	850 VA (3.5A)	1150 VA (4.8A)	1550 VA (6.5A)
Current consumption (24V DC)	15A	25A	40A	50A
Standby current (24V DC)	1.2A (Standby input OFF) or 0.5A (Standby input ON)			
IP audio input signal activity	Auto detect / Always ON setting via web			
Frequency response	50 Hz – 18 kHz (± 3 dB @ 1 kHz, 0 dBu)			
Tone / volume controls	Bass, Treble			
THD + Noise & S/N ratio	< 1% | > 70dB			
Output zones (100V)	4 zone outputs with A/B terminals (fuse protected)			
Audio output	Master line output, balanced (0 dBu)			
Audio out gain control	Output 100V			
Output audio monitor	Front speaker with volume control			
Aux DC output	24V DC, 3A max			
Communication controls	TCP/IP, UDP, HTTP, ADP, UART (RS485, 19.2 kbps)			
Audio streaming	MP3 up to 256 kbps for BGM; G.722 PCM for paging			
User interface	Web browser interface (Google Chrome V90+ recommended)			
Emergency relay contact	3A, NO relay			
Fault detection	Amplifier fault, line fault with switchable buzzer			
Amp fault changeover	Built-in changeover relay			
Indicators	Signal, temperature, amplifier fault, power, link status, zone selection, pilot tone, hold reset			
Protection & cooling system	Thermal (70°C), overcurrent, short circuit, AC fuse | Forced fan with temperature control			
Operating & cut-off temperature	-10°C to 60°C | 75°C at heatsink			
Dimensions (W x H x D)	482 x 88 x 420 mm			
Net weight	9.10 kg			

iFS4020 iCS6020 iHS8020 iPS8020

Ethernet IP PoE Speakers

iFS4020

20W IP PoE Full Range Box Speaker

iCS6020

20W IP PoE Co-Axial Ceiling Speaker

iHS8020

20W IP PoE ABS Horn Speaker

iPS8020

20W IP PoE Pendant Ball Speaker

Amperes IP PoE Speakers provide an easy way to install BGM or paging speakers in IP-based PA systems without long home-run cabling, as long as a network port is available. Available in box, ceiling, horn and pendant models, they are PoE-powered with built-in Class D amplifiers and integrate seamlessly with Amperes iPX systems, receiving audio from PMX Software or through iPX5200 for audio streaming and paging.

e²vis Compatible

Technical Specifications

PoE Speakers	iFS4020	iCS6020	iHS020	iPS8020
Power rating	20W			
Power source	PoE+ (IEEE 802.3 at 48V)			
Standby power consumptions	0.5W			
Operating power consumptions	15W Max			
Amplifier rating	20W 4 Ohm			
Speaker type	2-way (4" woofer + 1" tweeter)	2-way (6" woofer + 1" tweeter)	Compression coil	2-way (8" woofer + 1" tweeter)
Speaker driver diameter	4" (100mm)	6.5" (165mm)	2" (50mm)	8" (200mm)
Sensitivity @ 1 kHz / w / m	87 dB	90 dB	92 dB	110 dB
Frequency response (±3 dB)	105 – 18 kHz	115 – 19 kHz	200 – 8 kHz	90 – 18 kHz
S/N ratio	85 dB			
Audio codec	IMA ADPCM / MP3 / WAV			
Network and protocols	100 Base-T / TCP/IP, UDP, IGMP, HTTP, ADMP, ADP			
User interface & firmware update	Web browser interface (Google Chrome V90+ preferred)			
Priority controls	Paging over BGM			
Operating temperature	0°C to 70°C			
Relative humidity	<70%			
Housing	ABS enclosure & aluminium grille	ABS enclosure & metal grille	ABS	
Dimensions	165 (W) x 270 (H) x 170 (D) mm	250 (dia) x 142 (H)	293 (W) x 212 (H) x 290 (D) mm	254 (dia)
Net weight	1.95 kg	1.85 kg	1.80 kg	1.90 kg
Colour	Black	White		

Packing Information

	iFS4020	iCS6020	iHS8020	iPS8020
Carton size	370 (L) x 370 (W) x 600 (H) mm	565 (L) x 565 (W) x 370 (H) mm	590 (L) x 455 (W) x 615 (H) mm	320 (L) x 320 (W) x 305 (H) mm
Gross weight	17.80 kg	18.20 kg	16.50 kg	3.05 kg
Qty/carton	8 units per carton	8 units per carton	8 units per carton	1 unit per carton

iVC7900 iAV7905

IP Network Volume Controller & Auto Volume Controller

iVC7900

IP Network Touchscreen Volume Controller

NEW

Elevate your audio management with the **iVC7900** touch-panel volume controller, built specifically for Amperes iPX IP PA setups. Boasting a sleek 4-inch capacitive touchscreen and an easy-to-use interface, it delivers effortless control powered directly through a PoE switch.

Take complete command of your network. This flexible panel allows you to manage IP speakers, the iPX5155, and IP amplifiers across multiple zones from any network location. Enjoy plug-and-play simplicity with minimal installation hassle. The iVC7900 combines superior usability with a sophisticated design that beautifully complements any modern environment.

Key Features

- **4" capacitive touch** with vivid colour, installed in 90x90 mm back enclosure
- **PoE** powered on Cat5e or 6 cable
- **Paging and BGM volume control** with EQ
- **Individual or group** volume control
- **Password protection** for secure access
- Volume control **schedule on specific time**
- **Web browser** configuration

Technical Specifications

Power source	Via PoE+, 48V or external 12V DC
Power consumption	68mA (1.7W) or 41mA (0.99W) at screen saver
LCD panel	4" diagonal capacitive touchscreen
Network	Via LAN, 10/100 Base-T TCP/IP
Cabling	Cat5e/6 cable
Cable distance	80m
Device setup	Via web browser (Google Chrome preferred) or through panel UI
Controls	Volume, BGM source, tone control, and channel selection, day & night setting, zone controls
Dimensions (W x H x D)	86 x 86 x 40 mm
Colour	White
Net weight	135g

iAV7905

IP Network Auto Volume Controller

NEW *Preliminary Information*

iAV7905 IP Auto Volume Controller provides automated network audio regulation. It is designed for environments with variable ambient noise profiles.

The device utilizes a specialized algorithm to sample ambient noise at intervals or real time. It automatically raises audio levels above the local noise floor. This ensures an optimal, consistent dB level for listeners.

The controller integrates directly with the iPX Ethernet PA system. It communicates volume data to the iPX5155, IP speakers, and IP amplifiers. This unit is ideal for transport hubs, government facilities, and hospitals.

Key Features

- **Eliminates** the need for manual volume controller adjustments
- **Adaptive Noise Tracking** that continuously samples ambient noise
- **Auto-adjusts volume in real-time** or at set intervals to stay above background noise
- Direct control of **iPX5155, IP Speakers, and IP Amplifiers**
- **Ideal for areas with fluctuating noise levels** throughout the day

Technical Specifications

Power source	24V DC or PoE+ powered
Data communication	via LAN, 10/100 Base T TCP/IP
Cabling to hardware	PoE Ethernet cable
Control function	Automatic volume control
Enclosure Information:	
Casing type	Ceiling-mounted Access Point (AP) enclosure
Enclosure material	ABS plastic
Dimensions (Dia x H)	168 x 50 mm
Colour	White

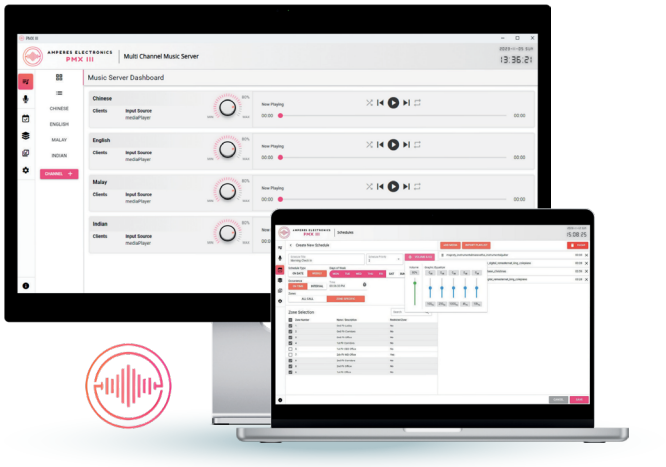
PMX III

Integrated PA Management Software

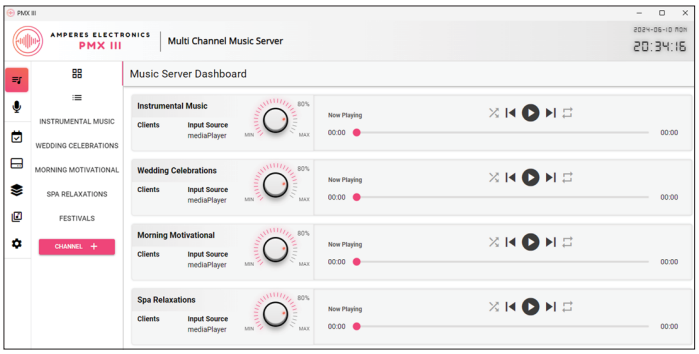
Take complete control of your network audio with **PMX III**, the software management platform for Amperes iPX IP-based PA systems. It seamlessly unifies background music, live paging, smart scheduling, and remote device monitoring into a single, intuitive interface. To fit your specific project infrastructure, PMX III comes in two tailored editions.

Standard - supports up to 10 BGM channels broadcast to BGM clients (iPX5155 / iPX5455/ IP Speakers) and flexible PC-based zone paging

Premium - adds device monitoring, scheduling, zone mapping, and Google-based multilingual TTS

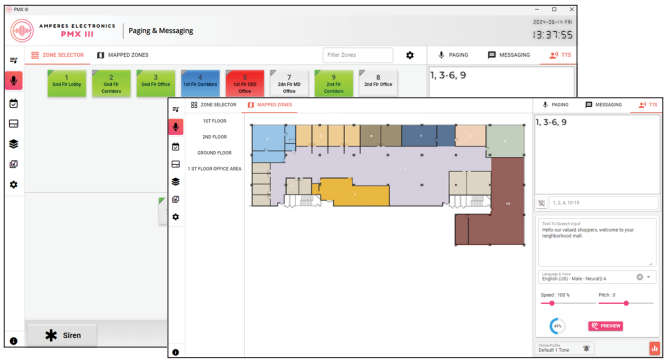


Music Channel Dashboard (BGM)



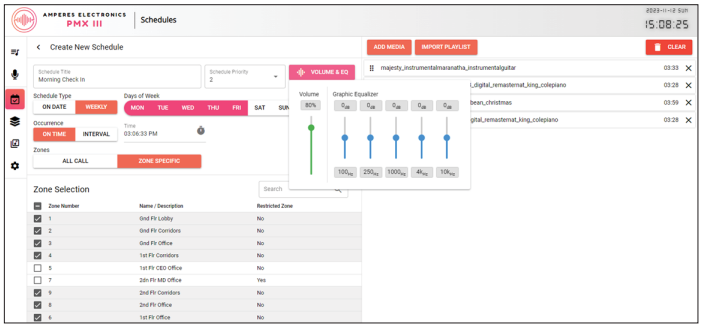
Supports up to 10 music channels, streaming different audio to Amperes IP clients or speakers, allowing each zone to play its own music—ideal for multi-zone setups with different audiences.

Paging & Messaging

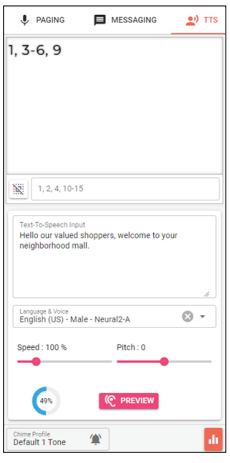


Easy PC-based paging with colour-coded zone keys, supporting up to 254 zones with customizable zone names. Premium version comes with visual zone mapping and grouping for more paging control.

Schedule Creation

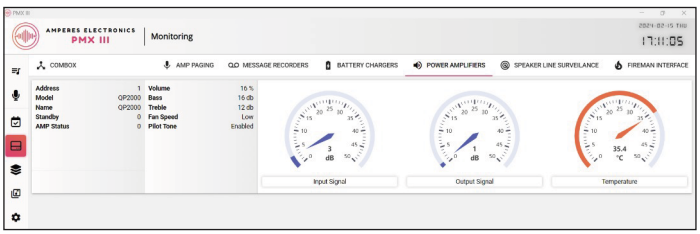


Supports flexible scheduling for automatic tone or audio playback, with options for date-based, weekly, or interval triggers, assignable to specific zones or groups.



Text-to-Speech (TTS) PREMIUM

Converts typed messages into spoken announcements with selectable voices and languages. Adjust speech speed and pitch, preview messages before broadcast, and track usage quota.



Remote Monitoring PREMIUM

Includes live device monitoring, allowing remote supervision of QD or QP amplifiers, line monitors, battery chargers, and other equipment via iPX5500.

The Next Generation of IP PA System

Amperes is proud to introduce **e²vis** (**E**nhanced **E**thernet **V**oice **I**ntegration **S**ystem)—the next evolution in IP paging protocols, set for release very soon. This groundbreaking update completely redefines IP paging capabilities across firmware, software, and hardware ecosystems.

Driven by user feedback and modern industry expectations, we have engineered this new platform with full backward compatibility in mind. Selected existing iPX hardware users can simply download the new firmware to immediately unlock powerful new features and advanced capabilities. With e²vis, upgrading your PA infrastructure is seamless, cost-effective, and entirely future-proof.

Key features but not limited to the followings :

SERVER-LESS OPERATION

Every component within the system will work independently without the need of a central server which translates into lower cost and uninterrupted operation in the event that a controller fails or linkage between sub systems disconnected.

Suitable for small to very large scale of installations of up to 2000 zones.

2000 ZONES

OPEN API

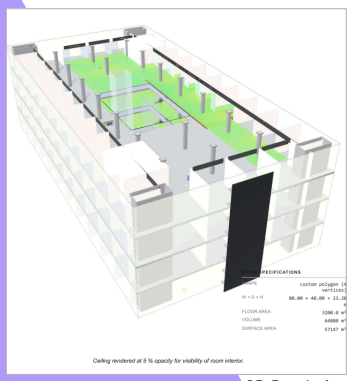
API will be available for 3rd party usage without restrictions, enabling seamless integration between Amperes IP system and other services such as BAS, FAS or customized integrated security system

ACOUSTIC SIMULATION

Eliminate guesswork with AuraLab, our advanced, web-based acoustic simulator. Engineered to inject undeniable value into your commercial proposals, AuraLab delivers simulated mapping for speaker placements that turns standard presentations into professional proposals.

AuraLab generates critical acoustic metrics instantly with hard science for SPL, Rt values, STI plots with various reports for a more precise installation to achieve optimum sound reproduction at your installations.

We believe in supporting your growth with Amperes without much added cost and as added value , AuraLab is available as a complementary application.



3D Rendering

PMX IV

The PMX IV is an advanced Integrated PA Management software solution which is built and enhanced upon the core capabilities of its predecessor, PMX III. The platform optimizes network-wide audio system control, monitoring, and equipment maintenance.

Key capabilities are the enhanced upgraded interface for a more user friendly navigation, centralized management and tracking of all connected e2VIS IP compatible devices or conventional equipment via ipx5500. This will ensure timely alerts for device faults and disconnections.

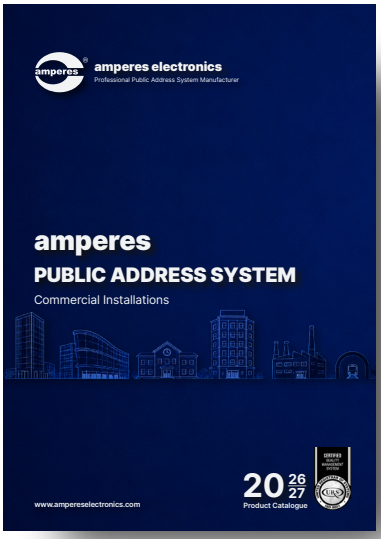
Automated notifications for available firmware updates will be available with easier update process through PMX IV. Other notably new components are the automated Islamic prayer calling (**Azan** player) and internet radio player.

SERIES OF PRODUCTS

The Ampere E2VIS series marks a strategic expansion into next-generation PA solutions designed for modern commercial environments. This new lineup integrates smart network connectivity, energy-efficient amplification, and intuitive software controls to meet the demands of digital era audio installations.

The series introduces advanced server-less IP system with other advanced devices and IP clients that form the backbone of decentralized systems. It will be able to integrate seamlessly with other mission-critical infrastructure, including ONVIF CCTV security networks and SIP telephony systems for direct phone-to-PA paging.

Ultimately, these innovations empower integrators and end-users with scalable, unified, and future-proof tools that bridge the gap between commercial audio and enterprise-level communication networks



2026/2027 Product Catalogue
Public Address System

Due to our policy of continuous product improvement, Amperes Electronics Sdn. Bhd. reserves the right to modify specifications, features, and artwork without prior notice.

Every effort has been made to ensure the accuracy of the information contained in this catalogue at the time of printing. However, minor errors or omissions may occur unintentionally. Should you require any clarification, please do not hesitate to contact us. Amperes Electronics shall not be held liable for any claims arising from printing errors.

Related materials such as engineering specifications, instruction manuals, product drawings, data sheets, software updates, soft copy catalogue and certificates are available for download on our website.

Models not listed in this catalogue edition are either discontinued or newly developed products pending official launch at the time of printing.

For further information, please contact your nearest distributor or email us directly.

The "**amperes**" logo is a registered trademark of Amperes Electronics Sdn. Bhd.

AMPERES ELECTRONICS SDN. BHD.
Professional Public Address (PA) System Manufacturer
Co. No: 200001006420 (509025-X)

www.ampereselectronics.com
info@ampereselectronics.com

Find us on