

# TERRACOM™

## Audio Over IP



**PAGING**



**BACKGROUND MUSIC**



**INTERCOM**



**LOCKDOWN**



**AUDIO ROUTING (CCTV)**

[www.pentonuk.co.uk](http://www.pentonuk.co.uk)

BY  
  
**PENTON**

### OPTION 1

#### CHOOSE YOUR MICROPHONE



##### SINGLE TARGET

TERRA-K  
All call only

##### MULTI ZONE

PPM-IT5  
Group or single call

1

#### SELECT A BOX FOR EACH ZONE YOU WANT TO PAGE

e.g. One box per zone

2

##### OUTPUT IP POE MODULE



To be used in conjunction with external 100v amplifiers.  
Receives audio from microphone.

#### SELECT YOUR SPEAKERS FOR EACH ZONE



3

##### OUTPUT IP RECEIVER WITH 2 x 20W AMPLIFIER



Must be used in conjunction with a power supply.  
Receives audio from microphone.

#### ADD YOUR CHOICE OF NETWORK SWITCH



4

##### INPUT/OUTPUT IP POE MODULE



To be used in conjunction with external 100v amplifiers. Receives audio from microphone & allows local zone audio input e.g CD player.



You're done!

##### INPUT/OUTPUT IP POE MODULE WITH 2 x 15W AMPLIFIER



Receives audio from microphone & allows local zone audio input e.g. CD player.

### OPTION 2

#### CHOOSE YOUR MICROPHONE



##### SINGLE TARGET

TERRA-K  
All call only



##### MULTI ZONE

PPM-IT5  
Group or single call

1

**ADD OUR IP SM SPEAKER  
MODULE AND CONVERT A LOW  
IMPEDANCE SPEAKER TO IP**  
One Module per Speaker

2A



##### IP POE MODULE WITH 2 X 15W AMPLIFIER

Receives audio from microphone.  
Depending on the speaker type you're using, you can also  
connect 2 or 4 speakers to a single module.

OR

2B

**SELECT OUR APH30-IP HORN  
SPEAKER WITH BUILT-IN MODULE**



3

#### ADD YOUR CHOICE OF NETWORK SWITCH



**You're done!**

### OPTION 1

#### SELECT A TERRA-IEX

Which allows a music source to be input onto the system



1

#### SELECT A BOX FOR EACH ZONE YOU WANT TO PLAY THE MUSIC

e.g. One box per zone

2

#### OUTPUT IP POE MODULE



Output IP POE module. To be used in conjunction with external 100v amplifiers. Receives audio from the TERRA-IEX.

#### SELECT YOUR SPEAKERS FOR EACH ZONE



3

#### OUTPUT IP RECEIVER WITH 2 x 20W AMPLIFIER

OR



Output IP receiver with 2x20W amplifier. Must be used in conjunction with a power supply. Receives audio from the TERRA-IEX.

#### ADD A WALL CONTROL FOR VOLUME LEVELS



4

#### INPUT/OUTPUT IP POE MODULE

OR



Input/Output IP POE Module. To be used in conjunction with external 100v amplifiers. Receives audio from TERRA-IEX & allows local zone audio input e.g. CD player.

#### ADD YOUR CHOICE OF NETWORK SWITCH



5

#### INPUT/OUTPUT IP POE MODULE WITH 2 x 15W AMPLIFIER

OR



Input/Output IP POE Module with 2x15W amplifier. Receives audio from the TERRA-IEX & allows local zone audio input e.g. CD player.

YOU'RE DONE! 

### OPTION 2

#### 1 SELECT A TERRA-IEX

Which allows a music source to be input onto the system



1

**ADD OUR IP SM SPEAKER MODULE AND CONVERT A LOW IMPEDANCE SPEAKER TO IP**  
One Module Per Speaker

2A

#### 3 ADD A WALL CONTROL FOR VOLUME LEVELS



3



#### IP POE MODULE WITH 2 X 15W AMPLIFIER

Receives audio from TERRA-IEX.  
Depending on the speaker type you're using, you can also connect 2 or 4 speakers to a single module.

#### 4 ADD YOUR CHOICE OF NETWORK SWITCH



4



**You're done!**

#### CHOOSE YOUR MICROPHONE



**SINGLE TARGET**

**MULTI ZONE**

TERRA-K  
All call only

PPM-IT5  
Group or single call

#### SELECT A BOX FOR EACH ZONE YOU WANT TO PAGE/ROUTE BGM

e.g. One box per zone

**OUTPUT IP POE MODULE**



To be used in conjunction with external 100v amplifiers.  
Receives audio from microphone & TERRA-EX.

**OUTPUT IP RECEIVER WITH 2 x 20W AMPLIFIER**



Must be used in conjunction with a power supply.  
Receives audio from microphone & TERRA-EX.

**INPUT/OUTPUT IP POE MODULE**



To be used in conjunction with external 100v amplifiers. Receives audio  
from microphone & TERRA-EX. Allows local zone audio input e.g CD player.

**INPUT/OUTPUT IP POE MODULE WITH 2 x 15W AMPLIFIER**



Receives audio from microphone & TERRA-EX.  
Allows local zone audio input e.g CD player.



#### SELECT A TERRA-EX

Which allows a music source to be input onto the system



#### SELECT YOUR SPEAKERS FOR EACH ZONE



#### ADD A WALL CONTROL FOR VOLUME LEVELS



#### ADD YOUR CHOICE OF NETWORK SWITCH

**YOU'RE DONE!**



#### CHOOSE YOUR MICROPHONE



##### SINGLE TARGET

TERRA-K  
All call only

##### MULTI ZONE

PPM-IT5  
Group or single call

1

2



#### SELECT A TERRA-IEX

Which allows a music source to be input onto the system

2A



#### ADD OUR IPSM SPEAKER MODULE AND CONVERT A LOW IMPEDANCE SPEAKER TO IP. One Module Per Speaker.

##### IP POE MODULE WITH 2 X 15W AMPLIFIER

Receives audio from microphone & TERRA-IEX.

Depending on the speaker type you're using, you can also connect 2 or 4 speakers to a single module.



3



#### ADD A WALL CONTROL FOR VOLUME LEVELS



4



#### ADD YOUR CHOICE OF NETWORK SWITCH

YOU'RE DONE!



## CHOOSE YOUR MICROPHONE FOR THE RECEPTION AREA



### SINGLE TARGET

TERRA-K  
All call only

### MULTI ZONE

PPM-IT5  
Group or single call

1A

1B

OR

2A

2B

3



## SELECT A TERRA-DS

This Door Station will allow communication between the reception & access door of your choosing.



## USE YOUR OWN GENERIC MICROPHONE

## SELECT A TERRA-FDX

Allowing full duplex (two-way) communication



YOU'RE DONE!







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- PAGING 
- BACKGROUND MUSIC 
- INTERCOM 
- LOCKDOWN 

## SELECT YOUR WIRELESS/WIRED MICROPHONE

Phantom power output available for speech reinforcement.



1A

OR

## SELECT THE BCM201 BOUNDARY MICROPHONE

To provide intercom or speech monitoring.



1B

## ADD THE TERRA-SAP PROCESSOR AS YOUR CENTRAL AUDIO HUB

Connect audio from a PC/Display/Projector. Integrated AEC for conference calls. Lockdown button for emergencies.



2

## SELECT YOUR SPEAKERS FOR THE ROOM



3

## ADD YOUR CHOICE OF NETWORK SWITCH



4

YOU'RE DONE!



## SELECT YOUR CCTV CAMERAS AND NVR/DVR

Ensure the NVR/DVR has an audio output



1

## CONNECT THE TERRA-IEX TO THE NVR/DVR AUDIO OUTPUT

Use the CCTV Camera VMS software to route audio to the NVR/DVR audio output. In addition, utilise the alarm contacts to direct the audio to different speaker zones or trigger pre-recorded messages stored on the TERRA devices. The audio is then streamed to your IP network speakers or other TERRA devices.

2



## SELECT AND CONNECT YOUR NETWORK IP SPEAKERS



3



YOU'RE DONE!

# TERRACOM™

## OPTIONAL HARDWARE EXTRAS



### TERRA-FXO

An analogue phone to IP phone 'bridge'. Also allows a mobile phone to call into the phone system.



### TERRA-FDX

Allows high quality two way communication.



### TERRA-IO

Enables triggering of a variety of devices such as lights, gates, access doors etc.

## INCLUDED OPTIONAL FUNCTIONALITY

### Scheduling

All Boxes Include A Scheduler To Manage & Activate Messages, Pre-Recorded Announcements, Break Bells etc.

### Streaming

Distribute Internet Radio, Music, Messages etc. Throughout A Building Or Multiple Buildings.

### Storage

Each Module Has Internal Storage. Keep Music, Tones, Announcements Stored Locally For Triggering

Due to the variety of devices available within our Terracom range, it allows for a greater flexibility when designing an audio solution.

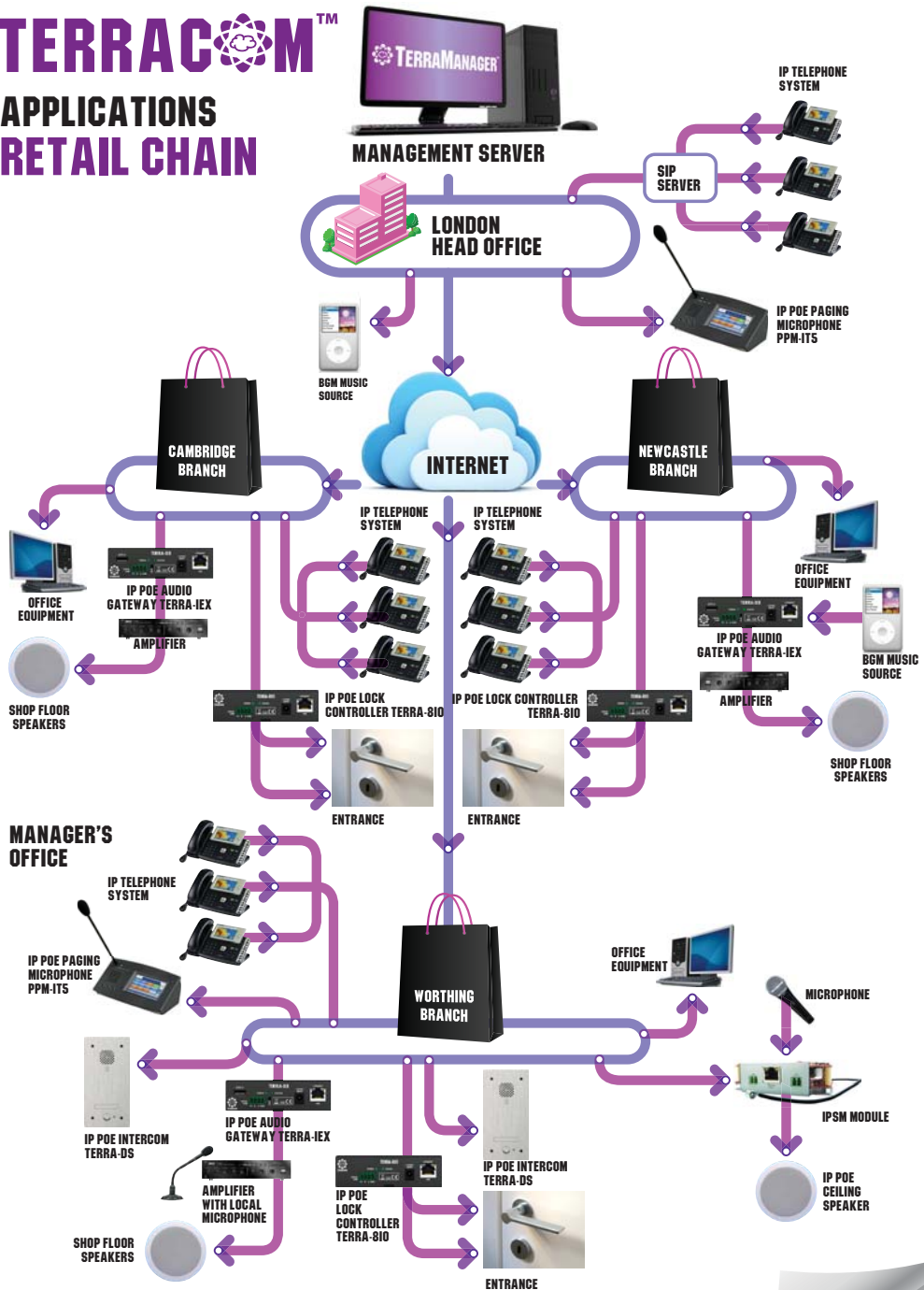
Should you have a project slightly more complex than you see within this document, please contact us and we will assist you with any technical design aspects.

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## APPLICATIONS RETAIL CHAIN



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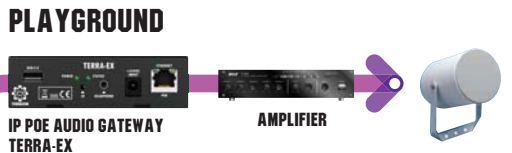
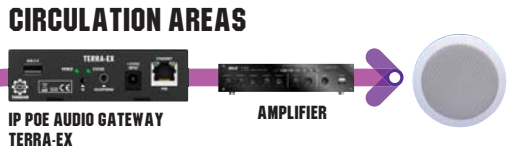
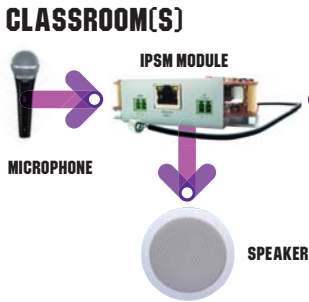
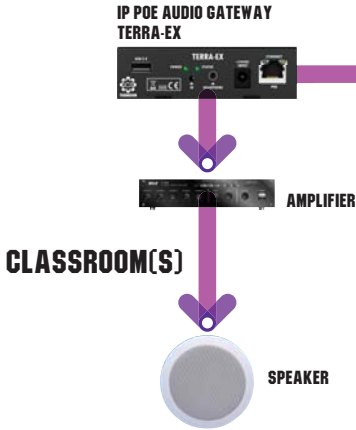
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## APPLICATIONS SCHOOL



### SITE WIDE IP TELEPHONE SYSTEM

### MANAGEMENT SERVER



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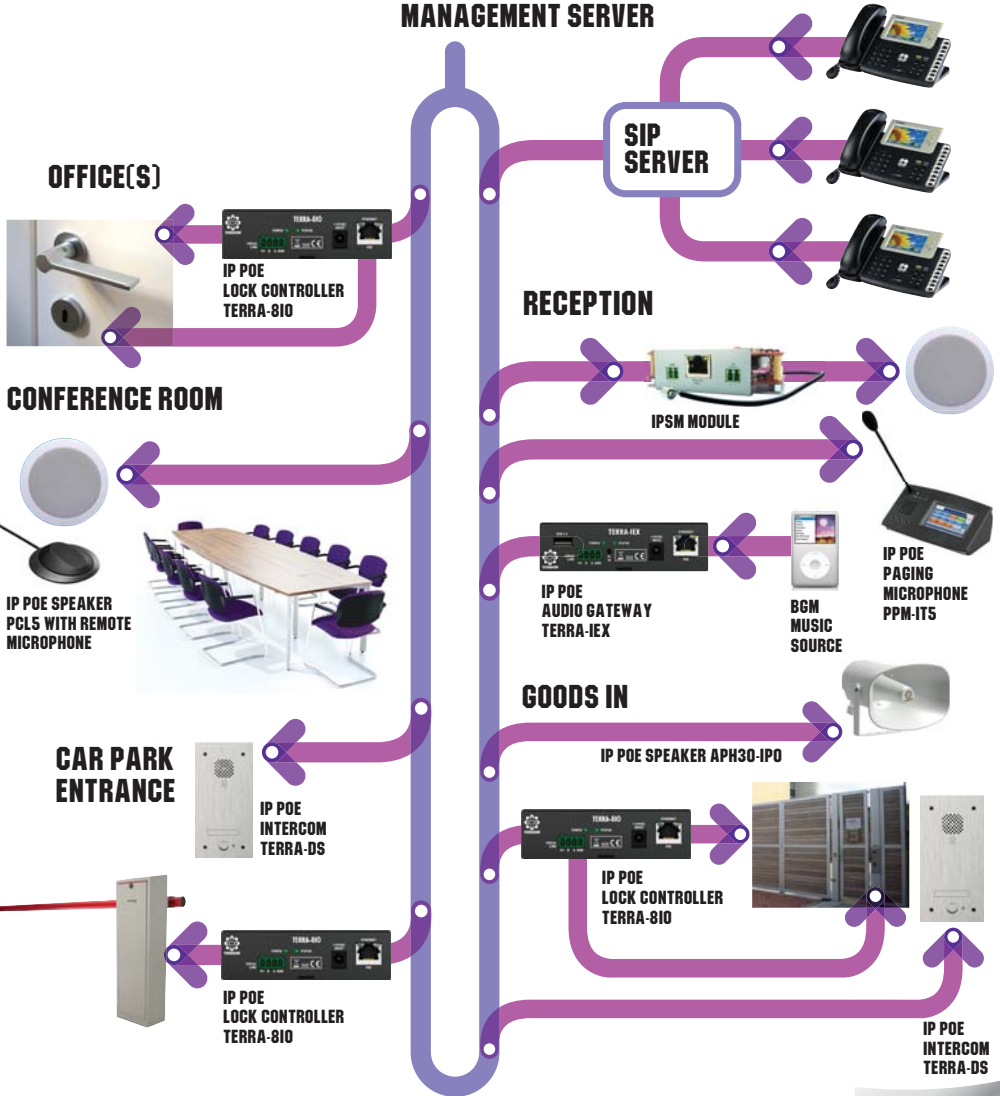
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## APPLICATIONS OFFICE



MANAGEMENT SERVER

## SITE WIDE IP TELEPHONE SYSTEM



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## APPLICATIONS HOTEL



**MANAGEMENT SERVER**

### SITE WIDE IP TELEPHONE SYSTEM

#### HOTEL BEDROOMS

**IP POE LOCK CONTROLLER  
TERRA-810**



**RACS  
REMOTE  
CONTROLLER**

#### BGM MUSIC SOURCE



**SPEAKERS**



**TV**

#### CAR PARK ENTRANCE



**IP POE SPEAKER  
APH30-IP**

**IP POE  
INTERCOM  
TERRA-DS**



**IP POE LOCK CONTROLLER  
TERRA-810**



**SIP  
SERVER**



#### RECEPTION



**IP POE PAGING  
MICROPHONE  
PPM-ITS**



**IP POE AUDIO GATEWAY  
TERRA-IEX**



**AMPLIFIER**



#### BAR



**BGM MUSIC  
SOURCE**



**IP POE AUDIO GATEWAY  
TERRA-IEX**



**AMPLIFIER**



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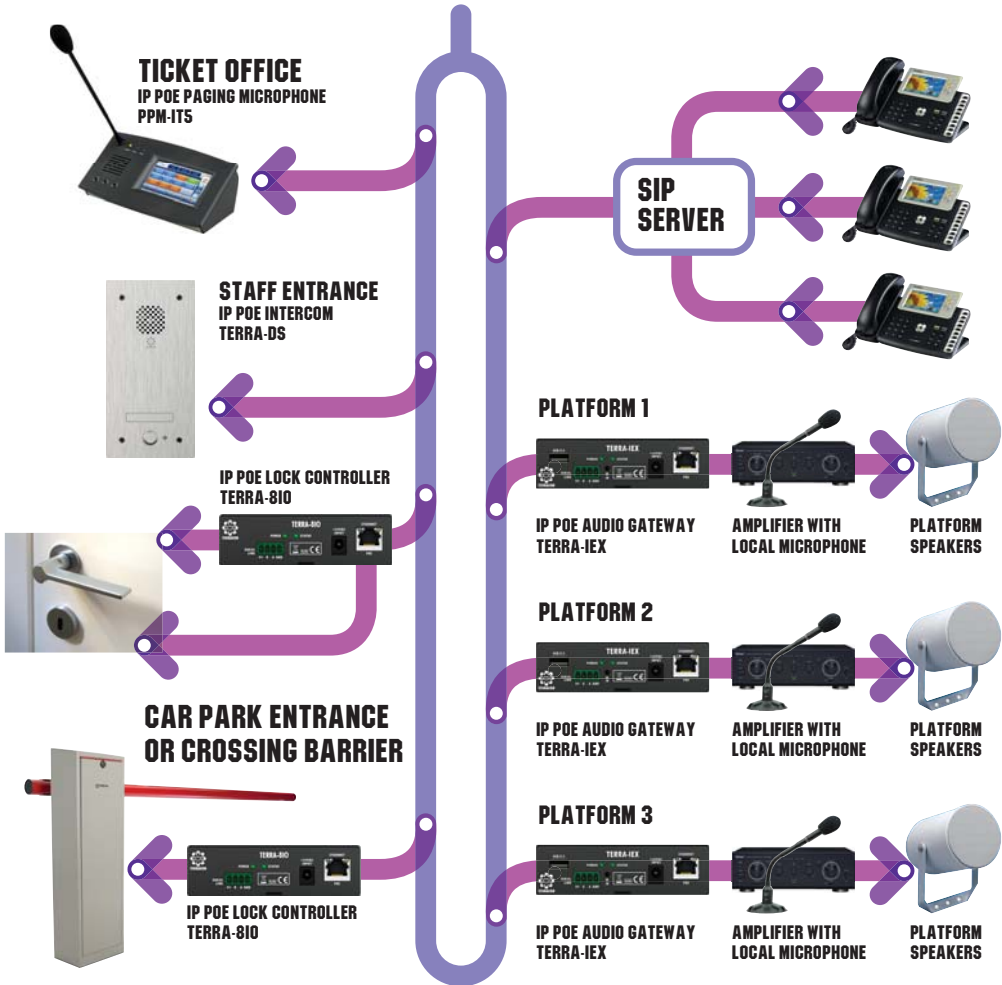


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## APPLICATIONS TRAIN STATION



**MANAGEMENT SERVER**



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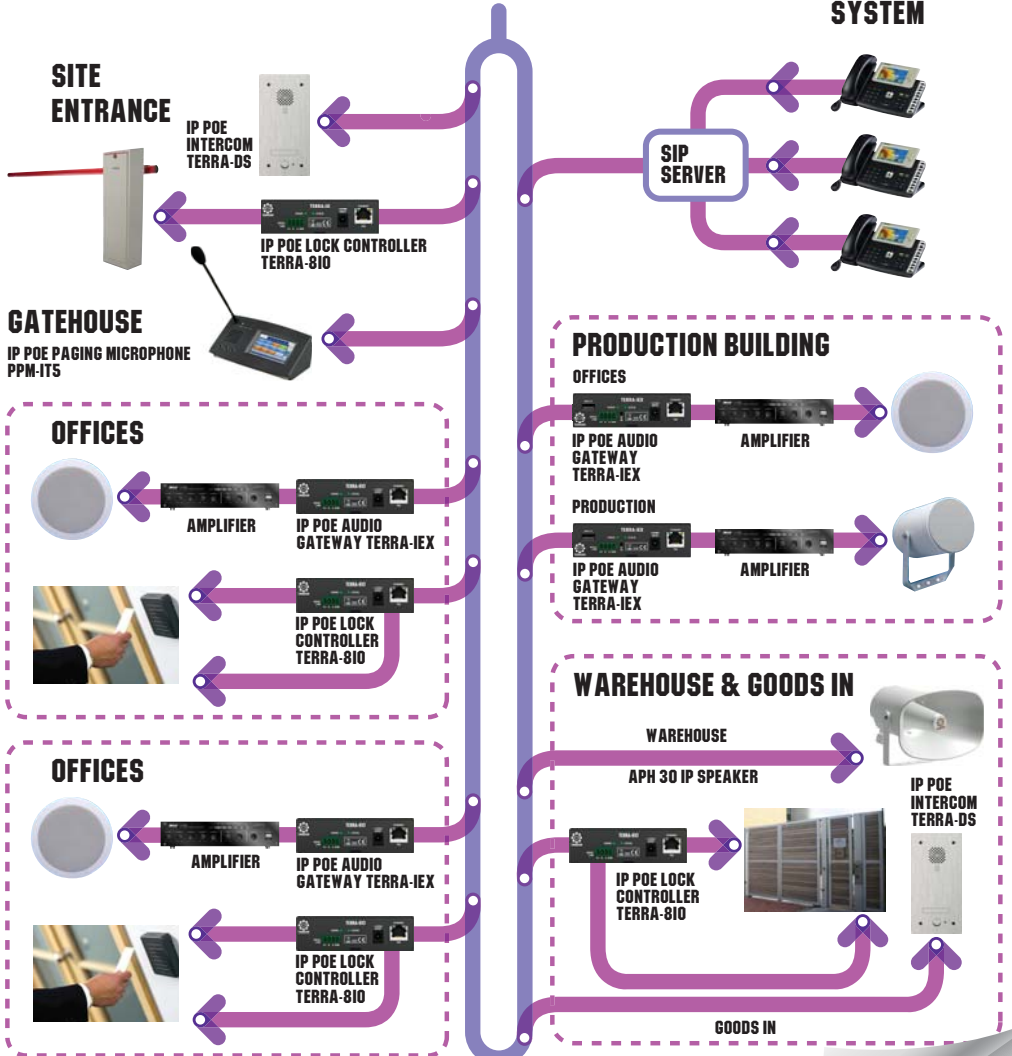
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## APPLICATIONS MULTIPLE BUILDINGS



MANAGEMENT SERVER

## SITE WIDE IP TELEPHONE SYSTEM



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