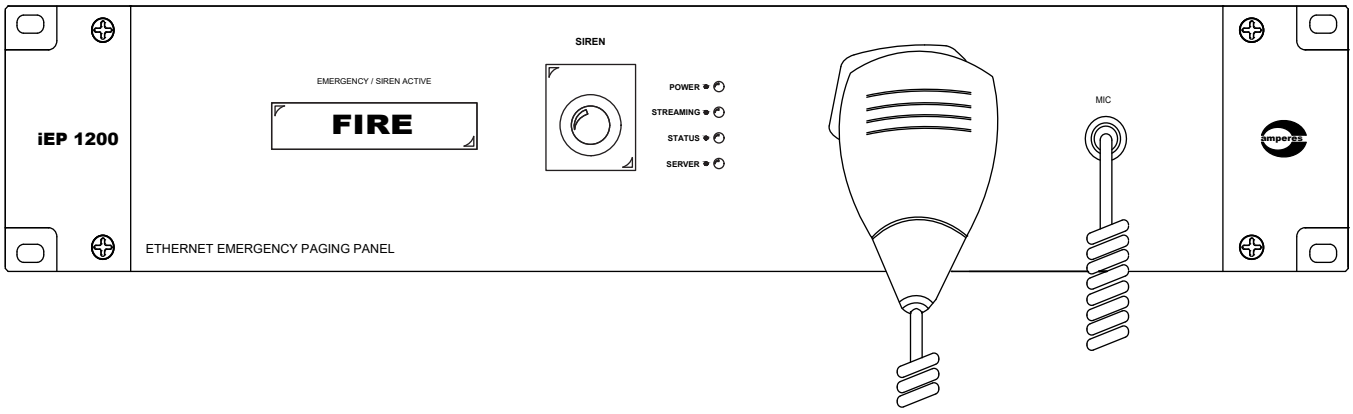
INSTRUCTION MANUAL

iEP1200

Ethernet Emergency Paging Microphone Panel

NEW



Thank you for choosing another quality product from Amperes Electronics.

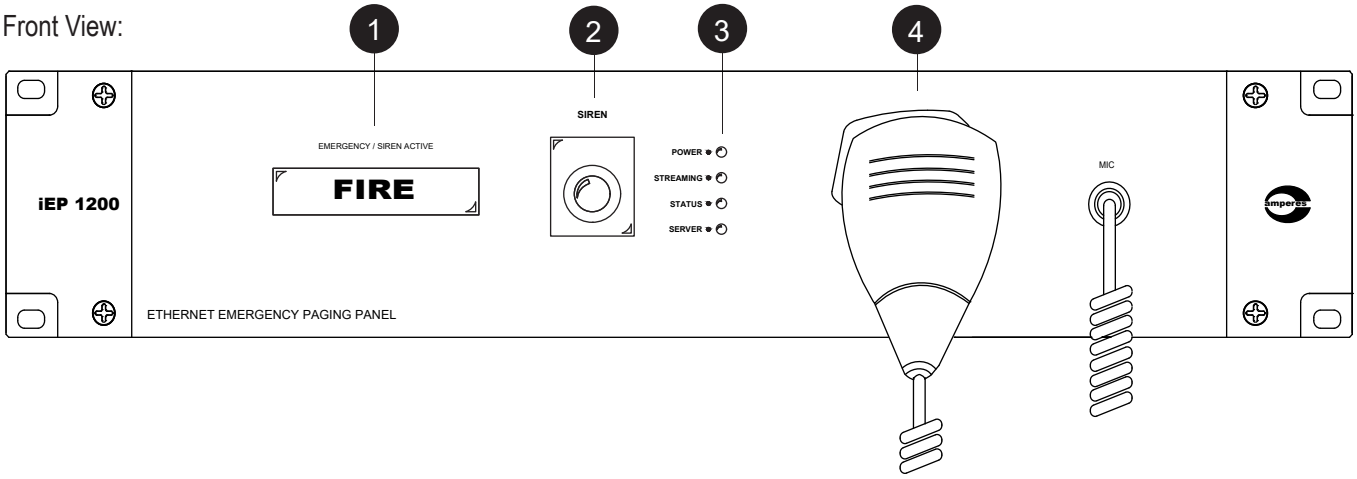
iEP1200 is an extension of the conventional EP1200 Emergency Panel which is now LAN ready. It is an essential tool for firemen to access directly to EVAC system with highest priority. All other paging in progress, music streaming would be directly cut off upon activation of the unit.

It has an added feature as compared to conventional type,ie. it can be programmed as local system's highest priority paging device (for distributed system), or as a global highest priority. Although it is essentially an IP based device, other analogue ports are available such as message player input, emergency dry contact and aux line audio output. Direct access to the unit's web browser is available for system setup.

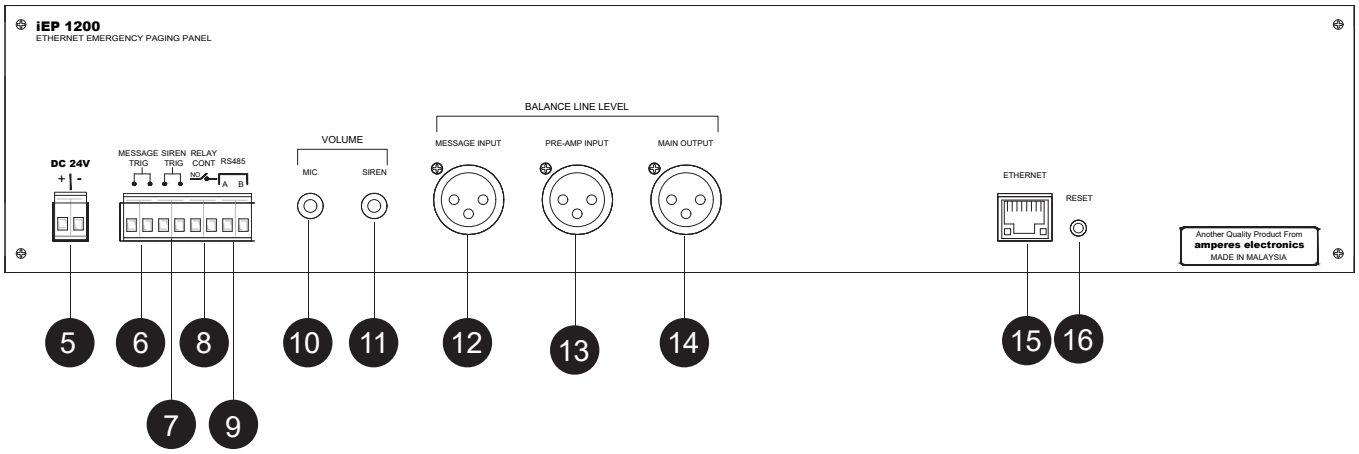
Version 1/18

Parts Identification

Front View:



Rear View:



1. FIRE INDICATOR

Whenever siren or external activation device is triggered, the FIRE indicator shall flash alongside with siren audio broadcast. Activate the paging microphone will also turn on the flashing.

2. SIREN SWITCH

Press the siren button shall activate the siren. FIRE indicator shall lit and the MIC switch relay contact (7) shall close. Press the siren switch again will turn Off the siren.

3. LED INDICATORS

LED indicators for Streaming, Network, Active and Power.

4. HANDHELD PAGING MICROPHONE

Pressing the microphone switch shall have priority over other inputs such as Siren, External Message input as well as normal paging or BGM feeds. To page, just pick up the handset, press the button and start talking. Releasing the switch, the previous operating mode shall resume.

5. 24V INPUT

The unit operates on 24V DC. It is preferred that the unit to be supplied directly from the uninterrupted power source. ie. power supplies linked to back up batteries.

Note: Do not connect directly to the terminals of back up battery. It shall damage the equipment.

Parts Identification

6. EXTERNAL MESSAGE TRIGGER PORT

External message player can be linked to it and can be broadcasted to the speakers when this port is triggered. A voltage free contact is recommended to trigger the message playback.

7. REMOTE TRIGGER PORT FOR SIREN

External sensor device such as heat detector or fire alarm interface device can be connected to this unit to activate the siren. The external device or switch must be voltage free to avoid damage to the unit. Two ways for the external switch to turn On/Off the siren :

1) A <2s close-then-open to turn On; a <2s close-then-open to turn Off
2) A >2.5s close to turn On, an open to turn Off

8. RELAY CONTACT

Triggering the front panel mic switch message or siren shall activate an internal relay. This ports provide a dry contact which can be used to connect E/M overriding signal or to activate ALL CALL at speaker zone selector. The recommended rating for the contact is 3A. In case higher rating is required, please use external relay or contactor to accommodate the high current requirement.

9. RS485 PORT

External controls or interface devices shall be able to communicate with the unit.

10. HANDHELD MIC LEVEL CONTROL

This is to adjust the front paging mic volume. It is recommended that the setting is made during testing and commissioning works.

11. SIREN OUTPUT LEVEL CONTROL

Adjust the siren output to an optimum level during testing and commission works.

12. EXTERNAL MESSAGE AUDIO INPUT

The external message playback signal shall be balanced line level. (e.g: audio from MR1301)

13. PRE-AMPLIFIER INPUT XLR

Output from pre-amplifier mixer (balanced line level) is connected to the unit which is normally closed when the unit is not activated. Triggering the panel shall bypass the signal to allow higher priority audio to the PA system.

14. AUDIO OUTPUT XLR

Connect balanced output signal from iEP1200 to power amplifier signal input.

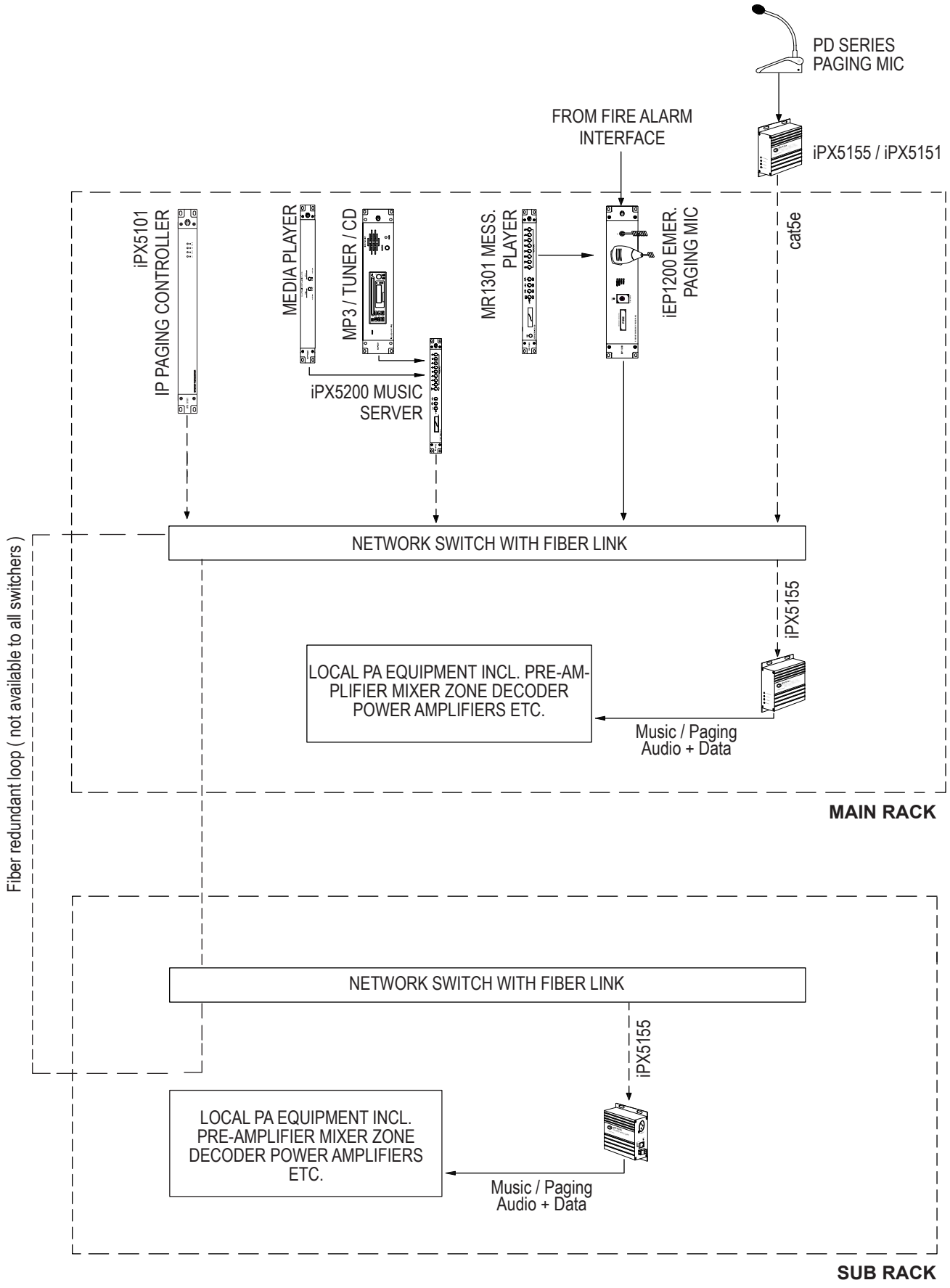
15. ETHERNET PORT

Connectivity to network switch.

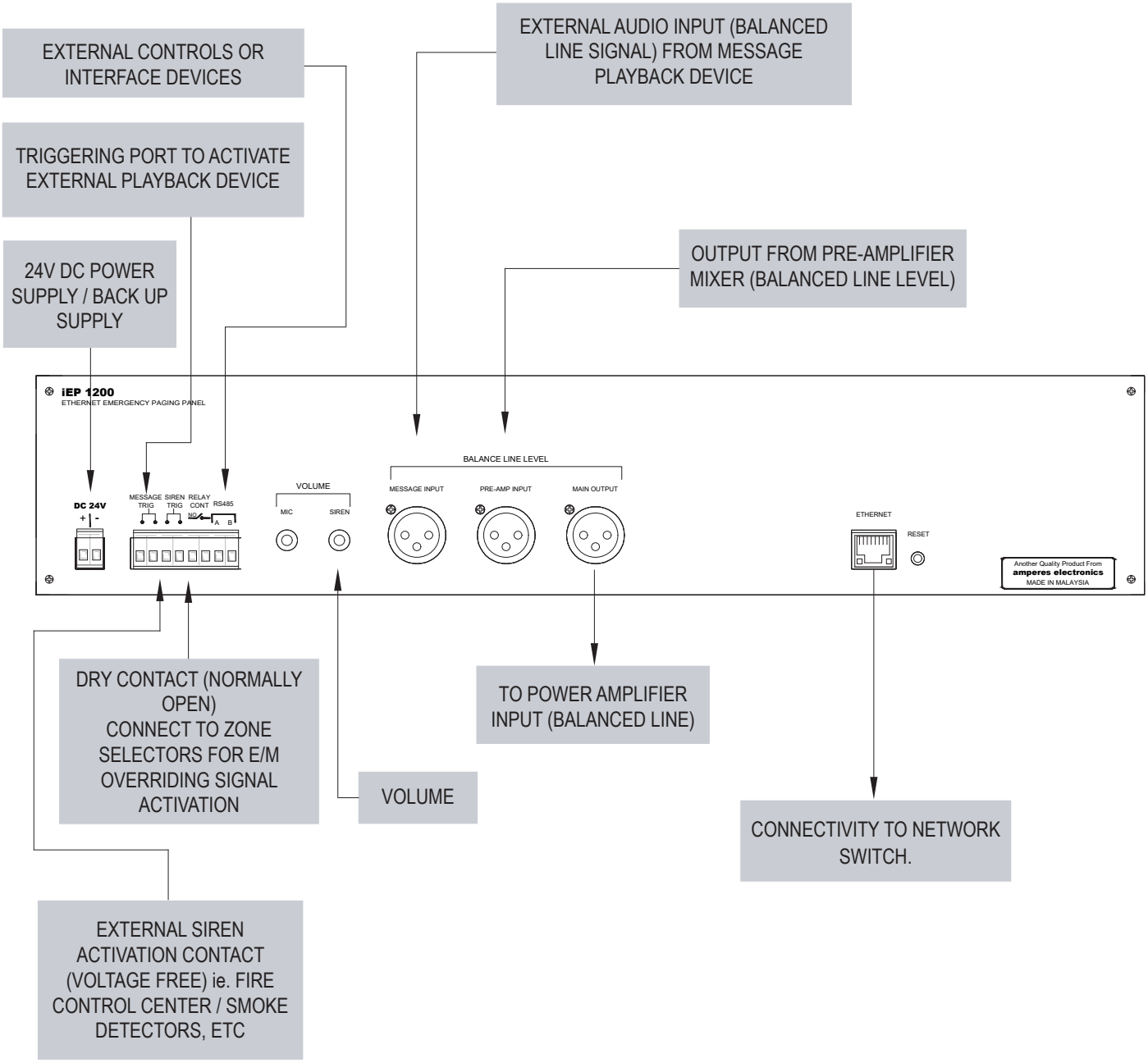
16. RESET SWITCH

Button for resetting the unit to factory default. Use only when required as setting done previously would be lost.

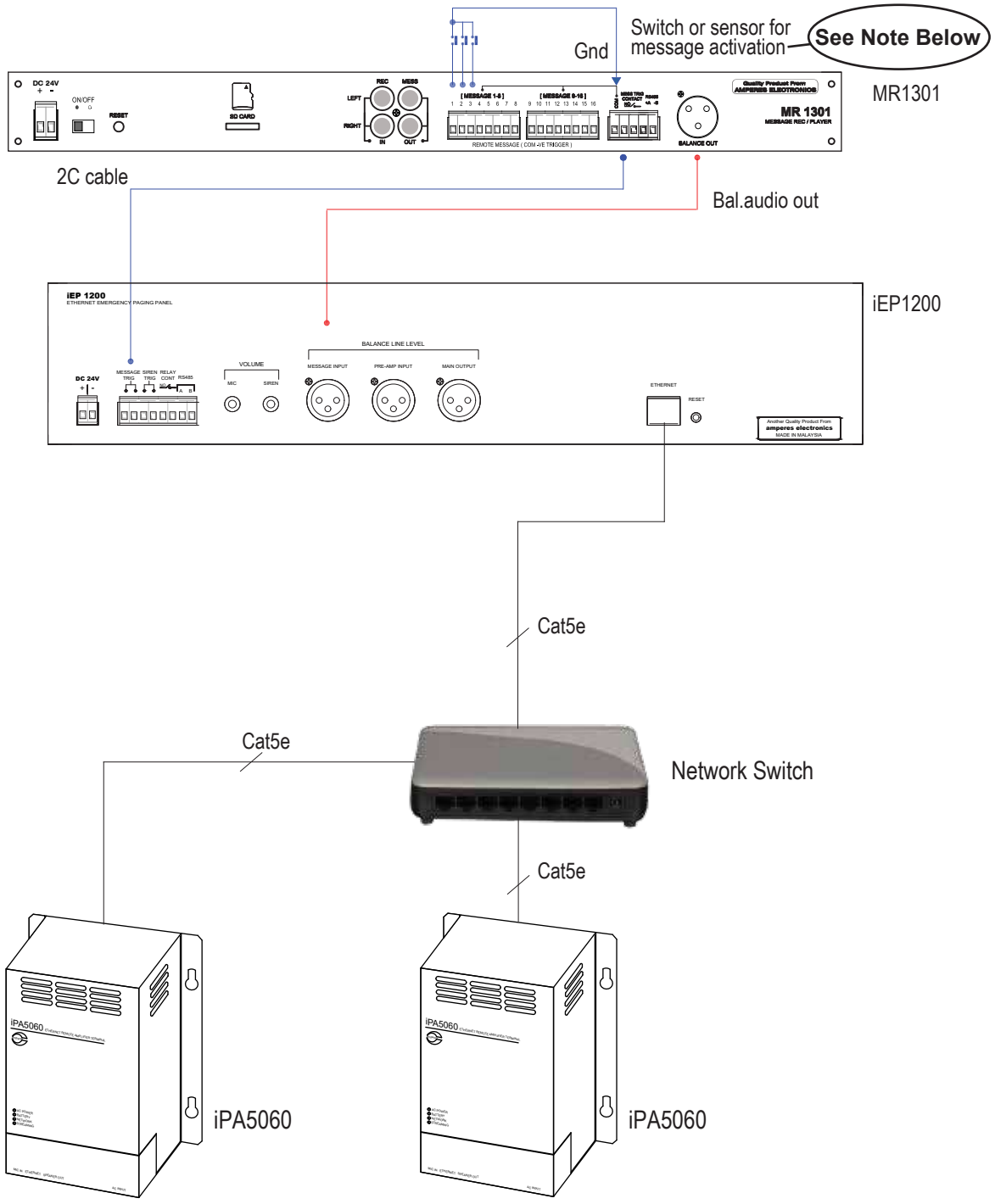
Connecting to iEP1200



Connecting The Unit



Connecting The Unit - Full IP Based with iEP1200

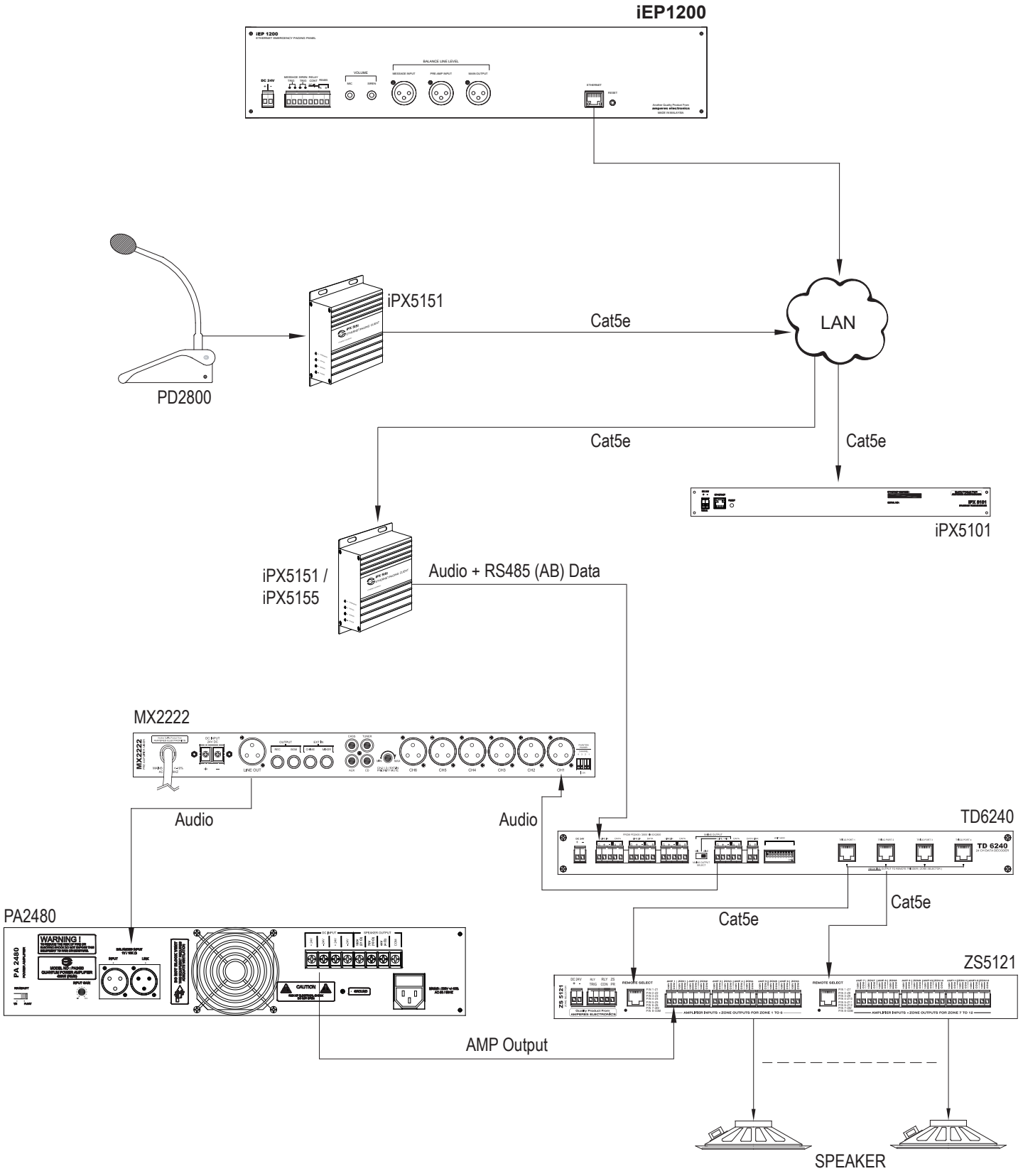


The dry contact at the MR1301 is used to trigger iEP1200, thus overriding the normal audio source for priority paging. It is then connected to the Emergency Relay trigger at the Zone Selector, providing a dry contact for connecting 24V DC to override external volume controllers.

Note:

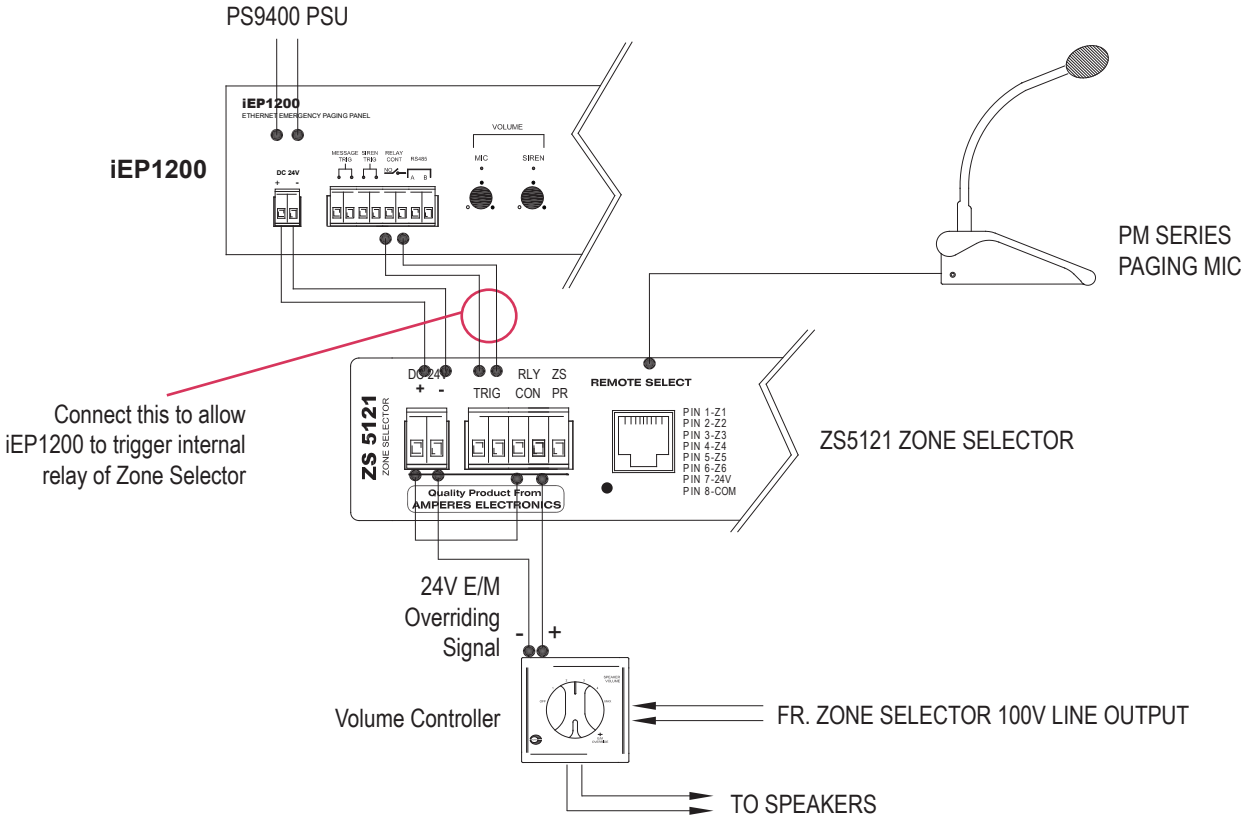
By default, the mode of activation is momentary. For this configuration, set it to momentary, and the dry contact shall be closed for the duration of the playback. This shall perform bypass of mixer audio output at iEP1200 until the message is stopped.

Connecting The Unit - IP Setup



iEP1200, which is installed at main rack for a large system using IP as communication interface, shall be able to override remote buildings / system as similar to single rack installation.

Configuring ALL CALL And E/M Overriding



The above diagram shows detailed connections for using iEP1200 to override volume control and activating ALL CALL at zone selector.

Device Setup Via Browser

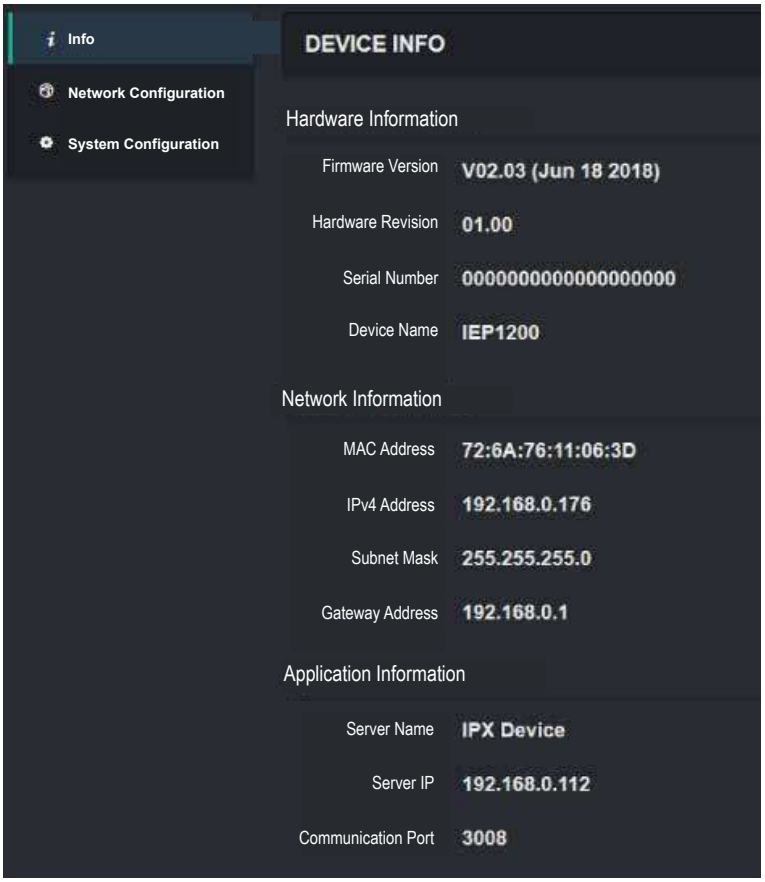
iEP1200 shall require some simple setups, kindly follow the step by step instructions as listed below. The default IP address is **192.168.0.100**. Login page shall appear and the default User ID and Password are both **"admin"**.

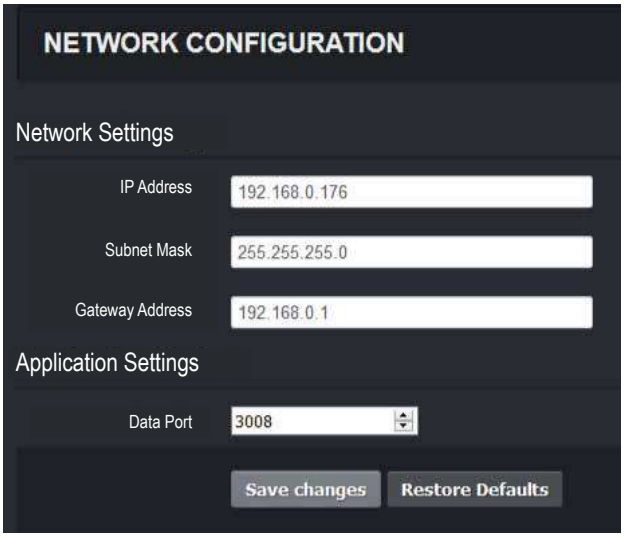
Info / Main Page

Info: Providing hardware, network and Application information. This shall be the first page once you entered the system's http browser.

Network Configuration: For configuration of IP address and its related ports.

System configuration: For Application Settings.





Network Configuration

Unless required, you are recommended to change the IP address only, leaving other setting such as port number as default. Once the address has been changed to suit the environment, click the "Save Changes" button.

Device Setup Via Browser

System Configuration

Application Setting: For Application Settings. The default source refers to the unit's selected source every time it is turned on.

Device Name: You can rename the device name.

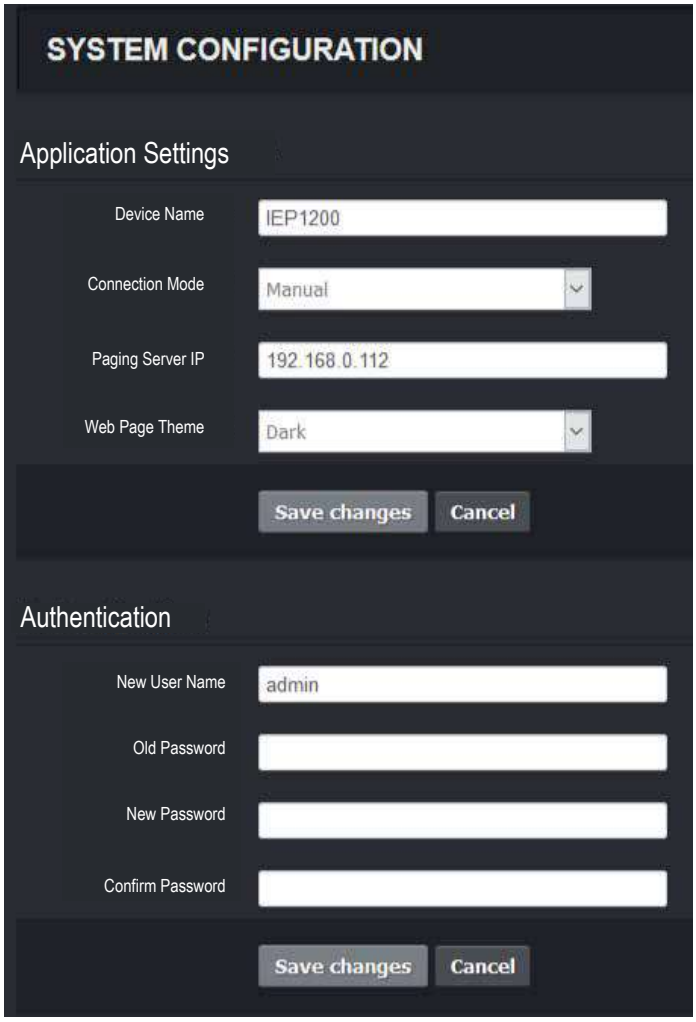
Connection Mode: You can choose Auto / Manual Setting.

Paging Server IP: To indicate the address of the iPX5101 of which the client is connected to.

Web Page Theme: You can choose the theme of the web page.

Authentication: You can alter the user name and password to avoid unnecessary access to the system.

Note:
Ensure Emergency Panel is correctly set. If the paging source is iEP1200, the default IP address shall be 192.168.0.100.



System Bootloading (Firmware / Browser Update)

System firmware or Browser shall be updated once in a while when new features are available or to fix bugs. There are 2 methods of doing;

Server Reset Bootloading

If the client "hanged", it is required to perform system reset by :

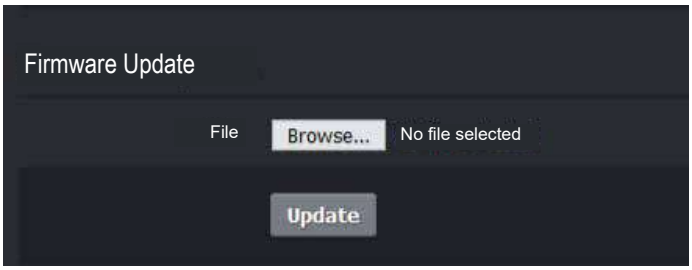
1. Default reset: Press & hold the reset button until LED "streaming" ON.
2. At the web browser, enter the IP address 192.168.0.151 and the page below shall appear. This is a "Safe Mode" page for Browser or Firmware update.

Safe mode: Press & hold the reset button until LED "status" ON.

System Bootloading (Firmware / Browser Update)

Update via Browser

To update the firmware via html page, enter the IP Address (192.168.0.151) and go to 'System Configuration' page under " Firmware updates " for firmware update.



To update the firmware, choose binary file with "appbin" extension (new file downloaded from website or source directly from us) and click update.

Technical Specifications

Power requirement	24V DC
Power consumption	5W
Microphone	Handheld condenser omni directional
Siren frequency	Continuous at 8 KHz
Outputs	Balanced line out (1.2V)
Priority sequence	Paging mic - siren - message - pre amp in
Indicators	Front test switch / remote contact
Data connectivity	RJ45; 100 Mbps
User interface	http; IE Ver 8 and above, Google Chrome, RS485, Firefox V22+
Protocols	TCP/IP, UDP, IGMP, Http
Dimension (WxHxD)	482 x 88 x 180
Weight	2.85 kg

Note:
The above specifications are correct at time of printing but subjected to changes without prior notice due to product improvements.

Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts ; cost and risks of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit; moreover the warranty does not cover any damages which may be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

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It is recommended that all services and repairs on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

AMPERES series must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

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AMPERES ELECTRONICS SDN BHD
MADE IN MALAYSIA
Published : October 2018