



The eX 800S Series eMatrix System is a fully integrated and versatile public address system which is designed distinctively to fulfill the demands for both emergency and communication broadcasting. The eX 800S Series eMatrix System operates normally as a Public Address Management System, and during emergency, the system shall transform into an Emergency Management System. AEX System provides three different types of system under the eX 800S Series which consists of Basic (n + 2 - 1) Early Evacuation System, Internal Hazard Early Evacuation System and External Hazard Early Evacuation System.

The eX 800S Series is able to handle up to a maximum of 20 inputs which consist of 12 messages / auxiliary inputs and 8 microphones while providing a maximum of 60 audio outputs . The 60 pure audio outputs are fully expandable to 188 speaker zones using relays, which enables the eX 800S Series to command an extensive area. The eMatrix System is able to handle up to 8 simultaneous inputs and 60 simultaneous outputs.

- Supports a maximum of 20 audio inputs and 60 audio outputs.
- The audio outputs are expandable to 188 speaker zones.
- Allows a maximum of 8 simultaneous paging.
- Supports up to 10 card slots per frame which can be configured to suite various applications.
- System configuration and monitoring can be done using the eX 800S Series Proprietary Graphical User Interface via a PC.
- Automatic system diagnosis to ensure that the system is working at an optimum condition.
- Supports up to a maximum of 128 control inputs and 128 control outputs.
- Built-in internal Timer to allow automatic event scheduling.
- Logs up to 3500 events which can be used for future references.
- Features three type of user access level password protection for security purposes.
- Remote monitoring can be performed via WAN or LAN network system.
- The eX 800S Series eMatrix System features the following functions;
 - Weekly Programmable Time Scheduler, Daylight Saving Setting and Special Occasion.
 - Microphone Queue.
 - System Self Diagnosis (Hardware & Audio Path).
 - Remote monitoring, configuration upload and email notification on status monitoring.
 - Communicate with iX 100E Series peripheral panels such as iX 156E All Call Manual Line Selector, iX 157E Manual Line Selector, iX 158E Emergency Panel and iX 159E Mimic Panel Interface Unit.
 - Allows a record of 2500 normal events and 1000 evacuation events.





eX 801S
Single CPC Main Frame

The eX 801S Single CPC Main Frame houses all the module cards and distributes the incoming power supply to the frame's multi-voltage power supply rail. The main frame features ten card slots for various module cards, Central Processing Card (CPC), and the Power Supply Inlet Card. The eX 801S utilizes a CPC to control and monitor all operation. The front panel of the main frame is integrated with indicators to state the status of the unit such as Power, CPU off, Fault and Status. The main frame also transmits audio and data information to the extension frame for additional module cards if required.

eX 802S
Dual CPC Main Frame

The eX 802S Dual CPC Main Frame has all the features found in the eX 801S Single CPC Main Frame except that it houses an additional Standby Central Processing Card (CPC) which automatically takes over the operation of the Main CPC in the event of a fault. This feature avoids operational down time and eliminates the need to have a fully redundant system as a backup which is much costlier and difficult to maintain. Operation automatically returns to normal when it detects that the fault has been rectified at the Main CPC.



eX 803S
Extension Frame

The Extension Frame is used when additional module cards are needed to cater for a more extensive public address system. Similar to the main frame, the extension frame accepts power supply and converts it to a lower voltage for module cards usage. The eX 803S features ten card slots, Extension Card and Power Supply Inlet Card. Status indicator for Power is available on the front panel of the frame.

Technical Specifications

Item	Specification
Power Requirement	24 Vdc (Regulated), 1.5 A
No. of Central Processing Card	1 no. eX 821
No. of Power Supply Inlet Card	1 no. eX 881
No. of Card Slot per Frame	10
Indication	Power, CPU OFF, Fault, Status
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimensions	483 x 133 x 200 mm
Weight	2.9 kg

Technical Specifications

Item	Specification
Power Requirement	24 Vdc (Regulated), 1.5 A
No. of Central Processing Card	1 no. eX 821; 1 no. of eX 822
No. of Power Supply Inlet Card	1 no. eX 881
No. of Card Slot per Frame	9
Indication	Power, CPU OFF, Fault, Status 1, Status 2
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimensions	483 x 133 x 200 mm
Weight	3.1 kg

Technical Specifications

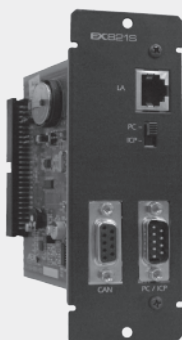
Item	Specification
Power Requirement	24 Vdc (Regulated), 1.5 A
No. of Power Supply Inlet Card	1 no. eX 881
No. of Extension Card	1 no. eX 824
No. of Card Slot per Frame	10
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	483 x 133 x 200 mm
Weight	2.7 kg



eX 811S
Control Manager

The eX 811S Control Manager is the proprietary software which is exclusively integrated with the eX 800 Series to enable the user to configure and customize the eMatrix System to suite its application. It allows user to configure input channel, output zones, time scheduler, failure output patterns, system diagnosis settings and many other functions. The Control Manager supports up to 3500 event logs, which records the system's activities and faults.

Moreover, the software enables the user to perform tests to check the status of audio path, hardware cards and so on. It also provides a constant monitoring system so that the eMatrix System is in optimum working condition. For security reason, the software provides 3 types of user access level password protection for authorised user, operator and visitor.

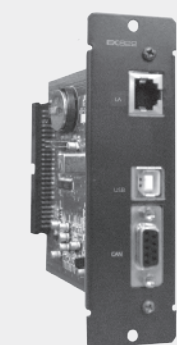


eX 821S
Central Processing Card

The Central Processing Card has a built-in Real Time Clock and a CPU fault detection circuit. The Central Processing Card main function is to coordinate the activities of the module cards as well as to process the configuration from Control Manager to the respective module cards. The card is integrated with various connectors to allow it to communicate with other system such as the iX 156E, ix 157E and ix 159E. The eX 821S card is also able to coordinate a simultaneous voice evacuation process using its onboard Evacuation Management System.

Technical Specifications

Item	Specification
Connector	1 No. RJ45 Connector 1 No. USB Connector 1 No. DB9 Female Connector
Power Requirement	24 Vdc (From Backplane), 650 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	45 x 128 x 173 mm
Weight	160 g

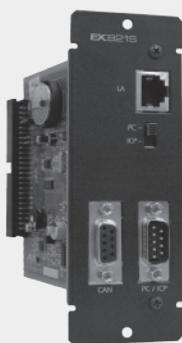


eX 822S
Central Processing Card 2

The eX 822S works as a hot-standby Central Processing Card (CPC) for the eX 821S. The module slots into a dedicated slot in the eX 802 Dual CPC Main Frame and monitors the operation of the primary CPC. In the event of failure to the primary CPC, the secondary CPC will automatically take over the entire operation. The switchover is instantaneous while an audible warning is emitted in the event of failure for rectification work. Every event is logged for reporting and available for print-out from the GUI.

Technical Specifications

Item	Specification
Connector	1 No. RJ45 Connector; 1 No. USB Connector; 1 No. DB9 Female Connector
Power Requirement	24 Vdc (From Backplane), 650 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	130 g

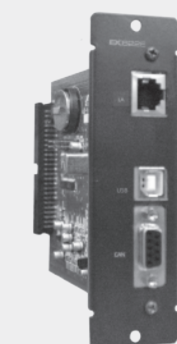


eX 821SE
CPC 1 with EES Feature (Internal Hazard)
eX 821SX
CPC 1 with EES Feature (Internal & External Hazard)

The eX 821SE is the Central Processing Card that converts the eX 800S Matrix Sound Management System into a full fledged Early Evacuation System (EES) for internal hazards such as a fire or gas leak (Phased Evacuation) while the eX 821SX performs both internal hazard evacuation and external hazard evacuation such as a bomb threat or threat from adjacent building (Optimal Evacuation). The EES automates the evacuation process of the entire building upon receiving the trigger signal from the fire alarm system or either by manual triggering. The system is able to simultaneously broadcast up to 32 different messages to different areas to alert people during an emergency situation.

Technical Specifications

Item	Specification
Connector	1 No. RJ45 Connector; 1 No. USB Connector; 1 No. DB9 Female Connector
Power Requirement	24 Vdc (From Backplane), 650 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	45 x 128 x 173 mm
Weight	160 g



eX 822SE
CPC 2 with EES Feature (Internal Hazard)
eX 822SX
CPC 2 with EES Feature (Internal & External Hazard)

The eX 822SE works as a hot-standby Central Processing Card (CPC) for the eX 821SE while the eX 822SX is for the eX 821SX. The module slots into a dedicated slot in the eX 802S Dual CPC Main Frame and monitors the operation of the primary CPC. In the event of failure to the primary CPC, the secondary CPC will automatically take over the entire operation. The switchover is instantaneous while an audible warning is emitted in the event of failure for rectification work. Every event is logged for reporting and available for print-out from the GUI.

Technical Specifications

Item	Specification
Connector	1 No. RJ45 Connector; 1 No. USB Connector; 1 No. DB9 Female Connector
Power Requirement	24 Vdc (From Backplane), 650 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	130 g

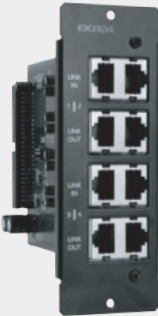


eX 823S
Main Frame Extension Card

This card serves as a data and audio signal transmission link to the extension frame via 4 RJ45 connectors. It enables the main frame to communicate with the extension frame.

Technical Specifications

Item	Specification
Connector	4 Nos. RJ45 Connector
Power Requirement	24 Vdc (From Backplane), 100 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	310 g



eX 824S
Extension Frame Extension Card

This card receives data and audio signal from the main frame. Supports data and audio signal transmission to other extension frame if required via 8 RJ 45 connectors.

Technical Specifications

Item	Specification
Connector	8 Nos. RJ 45 Connector
Power Requirement	24 Vdc (From Backplane), 80 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	45 x 128 x 173 mm
Weight	190 g



eX 874S
Blank Panel

The blank panel is used to cover any unused slots in the frame to prevent foreign objects from entering the enclosure.

Technical Specifications

Item	Specification
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 5 mm
Weight	20 g

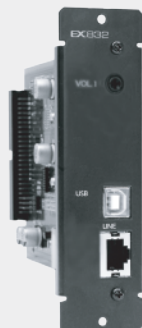


eX 831S
Auxiliary Input Card

The eX 831S Auxiliary Input Card serves as the pre-amplifier for sources like background music, digital messages and microphones. Each card features two Auxiliary Inputs with Control Input. The audio inputs feature jumper settings for either microphone (-70dB to -45dB) or line in (-20dB to 8dB). The Auxiliary inputs are stereo inputs for background music player and individual gain can be adjusted via recessed potentiometer. The card can also provide phantom power if connected to a condenser microphone. The eX 831S card utilises RJ45 connectors for both audio input and control input. This card is to be installed in the eX 801S or eX 802S Main Frame only.

Technical Specifications

Item	Specification
No. of Channel	2
Input Sensitivity	MIC: -70 to -45 dB (adjustable) with built in Audio Limiter, 600 Ω, unbalanced LINE: -20 to +8 dB (adjustable), 10 kΩ, balanced MIC or LINE selectable by the built-in jumper
Low Frequency Filter (100 Hz)	-15 dB to + 15 dB Boost & Cut (adjustable)
High Frequency Filter (10 kHz)	-15 dB to + 15 dB Boost & Cut (adjustable)
Distortion	< 0.5%
Frequency Response	20 Hz - 20 kHz
Phantom Power	7.5 V
Control Input	Dry Contact Activation
Control	2 Nos. Volume Control
Connector	2 Nos. RJ45 Connector
Power Requirement	24 Vdc (From Backplane), 30 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	157 g



eX 832S
Auxiliary Input and Digital Source Card

The eX 832S Auxiliary Input and Digital Source Card is a 2-in-1 card which features an auxiliary input (switchable between MIC and LINE level) as well as a digital source module which stores and plays audio files in MP3 format. The digital source module utilizes Multimedia Card (MMC) as a storage medium which is able to store up to 128 background music (BGM) or messages in a single card. Similar to the eX 831S, the eX 832S features jumper selection settings, stereo inputs, phantom power and individual gain control. The eX 832S provides an RJ45 connector for Audio and Control Input as Auxiliary Input and a USB port for file transfer to the MMC. This card is to be installed in the eX 801S or eX 802S Main Frame only.

Technical Specifications

Item	Specification
No. of Channel	1 Channel - AUX Input 1 Channel - Digital Source
Input Sensitivity for AUX Input	MIC: -70 to -45 dB (adjustable) with built in Audio Limiter, 600 Ω, unbalanced LINE: -20 to +8 dB (adjustable), 10 kΩ, balanced MIC or LINE selectable by the built-in jumper
Low Frequency Filter (100 Hz) - for AUX Input	-15 dB to +15 dB Boost & Cut (adjustable)
High Frequency Filter (10 kHz) - for AUX Input	-15 dB to +15 dB Boost & Cut (adjustable)
Distortion	< 0.5 % - AUX Input < 0.5 % - Digital Source
Frequency Response	20 Hz - 20 kHz - AUX Input 20 Hz - 20 kHz (44.1 kHz sampling) - Digital Source
Control Input	Dry Contact Activation
Control	1 No. Volume Control
Connector	1 No. RJ45 Connector - AUX Input 1 No. USB Connector - Digital Source
External Storage - (DS)	Multimedia Card (MMC)
Playback Mode - (DS)	Single Source Playback
No. of Playback Program - (DS)	128 Programs
Power Requirement	24 Vdc (From Backplane), 30 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	200 g



eX 833S
Dual Channel Digital Source Card

The eX 833S Dual Channel Digital Source Card provides 2 channels of digital source for both messages and audio files. It is able to store and playback up to 128 BGM or messages per card and uses Multimedia Card (MMC) as a storage medium. Moreover, the card is integrated with two USB ports for file transfer to the MMC via a personal computer. This card is to be installed in eX 801S or eX 802S Main Frame only.

Technical Specifications

Item	Specification
No. of Channel	2
Distortion	< 0.5 %
Frequency Response	20 Hz - 20 kHz
Playback Mode	Dual source playback
No. of Playback Program	128 Programs - Each Channel
Connector	2 Nos. USB Connector
Power Requirement	24 Vdc (From Backplane), 100 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	220 g



eX 834S
Microphone Input Card

The eX 834S Microphone Input Card provides two inputs for Remote Microphones and Emergency Microphones. Each input channel is able to communicate with eight Remote Microphones or a combination of four Emergency Microphones and 4 Remote Microphones. The eX 834S utilizes RJ45 connectors for Audio and Data Input. This card is to be installed in eX 801S or eX 802S Main Frame only.

Technical Specifications

Item	Specification
No. of Channel	2
Connectable Microphone	eX 865S, eX 866S, eX 867S, eX 868S eX 861S, eX 862S, eX 863S, eX 864S
Connector	2 Nos. RJ45 Connector
Power Requirement	24 Vdc (From Backplane), 100 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	158 g

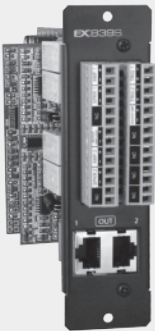


eX 837
Audio Output Card

The eX 837 provides two 0 dB electronically balanced audio outputs with individual gain control via the Control Manager software. A dry contact output is available to provide external control which can be used for overriding the audio attenuator when the channel is activated. The module either connects directly to the power amplifier inputs or through the LA 08 Integrated Supervisory Unit for line supervisory & amplifier changeover purposes.

Technical Specifications

Item	Specification
No. of Channel	2
Output Level & Impedance	0 dBV, 600 Ω Balanced
Control Output	NO or NC Dry Contact (max. 24 Vdc, 1 A)
Connector	2 Nos. RJ45 Connector; 1 No. 1 x 4-pin Panel Feed Through Connector
Power Requirement	24 Vdc (From Backplane), 150 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	205 g



eX 839S
Audio Output Card with Integrated Supervisory Module

The eX 839S is similar with the eX 837S with additional built-in line supervisory using impedance measurement technique for both channels and amplifier switchover function in the event of amplifier failure. When a loudspeaker line short circuit is detected, the module automatically isolates the power amplifier from the faulty line to prevent it from damage. The module enables the system to comply to the IEC/EN 60849 requirement that calls for two separate loudspeaker circuits in one loudspeaker zone. There are two selectable modes of operation : Continuous Monitoring (as required by IEC/EN 60849) or Scheduled Monitoring. Continuous monitoring requires an additional end-of-line detector module and a pair of return cable back to the unit.

Technical Specifications

Item	Specification
No. of Channel	2
Output Level & Impedance	0 dBV, 600 Ω Balanced
Control Output	NO or NC Dry Contact (max. 24 Vdc, 1 A)
Line Monitoring	Continuous Monitoring or Scheduled Monitoring
Connector	2 Nos. RJ45 Connector; 1 No. 2 x 14-pin Panel Feed Through Connector
Power Requirement	24 Vdc (From Backplane), 170 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	250 g



eX 841S
Control Input Card

The eX 841S Control Input Card provides up to 16 control sensor inputs where it is able to receive dry contact signals provided by any external system. All the inputs are opto-isolated. These sensor inputs data will be transmitted to the Central Processing Unit for further processing.

Technical Specifications

Item	Specification
No. of Channel	16
Sensing Method	Dry Contact or Current Loop (jumper selectable)
Dry Contact Method	NO or NC (jumper selectable)
Current Loop Method	Released Voltage 24 Vdc, 5 mA
Connector	4 Nos. RJ45 connector
Power Requirement	24 Vdc (From Backplane), 100 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	158 g



eX 842S Control Output Card

The eX 842S Control Output Card provides up to 16 make/break relay contact outputs where it transmits output signal to any external system. Each card channel is able to withstand voltage of 24 Vdc / 120 Vac and control current of 250mA.

Technical Specifications

Item	Specification
No. of Channel	16
Triggering Method	NO or NC Dry Contact (jumper selectable)
Withstand Voltage	24 Vdc, 250 mA
Connector	4 nos. RJ45 Connector
Power Requirement	24 Vdc (From Backplane), 320 mA
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	35.5 x 128 x 173 mm
Weight	230 g

eX 861S . eX 862S . eX 863S . eX 864S Emergency Microphone

The Emergency Microphone produces 0 dB Audio Balanced Output and communicates with eX 834S Microphone Input Card via RS 485 Communication line. Each communication line is able to connect 4 Emergency and 4 Remote Microphones or 8 Remote Microphones. It has a maximum distance of 1.2 km for a single Emergency Microphone. The Emergency Microphone features a built-in siren, audio gain control and auto mic OFF when it is left unattended. The Emergency Microphones are equipped with programmable function keys. These function keys can be programmed to perform zone selection, relay activation or any other matrix activities. There are four models for Emergency Microphones, namely eX 861S (10 functions), eX 862S (20 functions), eX 863S (40 functions) and eX 864S (120 functions). The microphones can either be a desktop unit or wall mounted using optional mounting bracket.



Item	eX 861S	eX 862S	eX 863S	eX 864S
Output Level & Impedance	0 dBV 600 Ω Balanced	0 dBV 600 Ω Balanced	0 dBV 600 Ω Balanced	0 dBV 600 Ω Balanced
Microphone	Handheld Omni-Directional Microphone	Handheld Omni-Directional Microphone	Handheld Omni-Directional Microphone	Handheld Omni-Directional Microphone
Distortion	< 1 %	< 1 %	< 1 %	< 1 %
Frequency Response	100 Hz - 20 kHz	100 Hz - 20 kHz	100 Hz - 20 kHz	100 Hz - 20 kHz
Signal-to-Noise Ratio	> 60 dB	> 60 dB	> 60 dB	> 60 dB
Internal Monitor Speaker	0.5 W	0.5 W	0.5 W	0.5 W
Volume Control	Microphone Level Control, Monitor Speaker Level Control, Siren Level Control	Microphone Level Control, Monitor Speaker Level Control, Siren Level Control	Microphone Level Control, Monitor Speaker Level Control, Siren Level Control	Microphone Level Control, Monitor Speaker Level Control, Siren Level Control
Auto Mic OFF	15 sec. to 2 min.	15 sec. to 2 min.	15 sec. to 2 min.	15 sec. to 2 min.
Number of Programmable Functions	10	20	40	120
Number of Connectable Units	4	4	4	4
Communication Protocol	RS 485	RS 485	RS 485	RS 485
Connector	RJ45, plug-in screw connector	RJ45, plug-in screw connector	RJ45, plug-in screw connector	RJ45, plug-in screw connector
Communication Distance	1.2 km	1.2 km	1.2 km	1.2 km
Power Requirement	24 Vdc (Regulated), 300 mA	24 Vdc (Regulated), 320 mA	24 Vdc (Regulated), 320 mA	24 Vdc (Regulated), 420 mA
Material & Finish	ABS Resin & Aluminium, Epoxy Powder Coated Steele Blue (RAL 5011)			
Dimension (W x H x D)	265 x 64.5 x 185 mm	265 x 64.5 x 185 mm	265 x 64.5 x 185 mm	475 x 64.5 x 185 mm
Weight	1.3 kg	1.3 kg	1.3 kg	2.0 kg

eX 865S . eX 866S . eX 867S . eX 868S

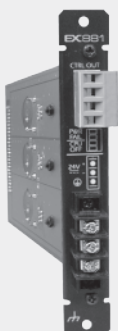
Remote Microphone

The Remote Microphone produces 0 dB Balanced Audio Output and communicates with the eX 834S Microphone Input Card via RS 485 communication. Each communication line can support up to 4 Emergency and 4 Remote Microphones or 8 Remote Microphones. Maximum cabling distance is 1.2 km (for a single Remote Microphone). The Remote Microphone features a built-in chime, audio gain control and Auto Mic Off if left unattended for a preset period of time. The Remote Microphone are equipped with programmable function keys. These function keys can be programmed to perform zone selection, relay activation or any other matrix activities. There are four models for Remote Microphones, namely eX 865S (10 functions), eX 866S (20 functions), eX 867S (40 functions) and eX 868S (120 functions). The microphones can be desktop unit.



Technical Specifications

Item	eX 865S	eX 866S	eX 867S	eX 868S
Output level & Impedance	0 dBV 600 Ω Balanced	0 dBV 600 Ω Balanced	0 dBV 600 Ω Balanced	0 dBV 600 Ω Balanced
Gooseneck Microphone	Unidirectional electret condenser microphone	Unidirectional electret condenser microphone	Unidirectional electret condenser microphone	Unidirectional electret condenser microphone
Distortion	< 1 %	< 1 %	< 1 %	< 1 %
Frequency Response	100 Hz - 20 kHz	100 Hz - 20 kHz	100 Hz - 20 kHz	100 Hz - 20 kHz
Signal-to-Noise Ratio	> 60 dB	> 60 dB	> 60 dB	> 60 dB
Internal Monitor Speaker	0.5 W	0.5 W	0.5 W	0.5 W
Volume Control	Microphone Level Control, Monitor Speaker Level Control, Chime Level Control	Microphone Level Control, Monitor Speaker Level Control, Chime Level Control	Microphone Level Control, Monitor Speaker Level Control, Chime Level Control	Microphone Level Control, Monitor Speaker Level Control, Chime Level Control
Auto Mic OFF	15 sec. to 2 min.	15 sec. to 2 min.	15 sec. to 2 min.	15 sec. to 2 min.
Number of Programmable Functions	10	20	40	120
Number of Connectable Units	8 (include Emergency Mic)	8 (include Emergency Mic)	8 (include Emergency Mic)	8 (include Emergency Mic)
Communication Protocol	RS 485	RS 485	RS 485	RS 485
Connector	RJ45, Panel Feed Through Connector	RJ45, Panel Feed Through Connector	RJ45, Panel Feed Through Connector	RJ45, Panel Feed Through Connector
Communication Distance	1.2 km	1.2 km	1.2 km	1.2 km
Power Requirement	24 Vdc (Regulated), 230 mA	24 Vdc (Regulated), 250 mA	24 Vdc (Regulated), 250 mA	24 Vdc (Regulated), 350 mA
Material & Finish	ABS Resin & Aluminium Epoxy Powder Coated Steele Blue (RAL 5011)			
Dimension (W x H x D)	210 x 64.5 x 185 mm	210 x 64.5 x 185 mm	210 x 64.5 x 185 mm	430 x 64.5 x 185 mm
Weight	1.2 kg	1.2 kg	1.2 kg	1.8 kg



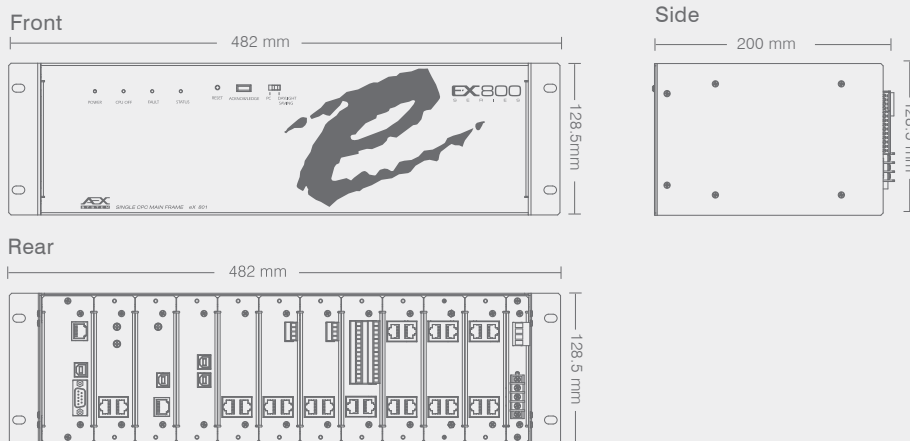
eX 881S Power Supply Inlet Card

The eX 881S Power Supply Inlet Card accepts regulated 24 Vdc power supply through its 3 pin terminal block, which includes an earth termination. The card also provides power failure and CPU off dry contact outputs to external system.

Technical Specifications

Item	Specification
Power Handling	24 Vdc (Regulated), 3 A
Connector	1 No. 3-Pin Terminal Block, 1 No. 4-Pin Panel Feed Through Connector
Material & Finish	Mild Steel; Epoxy Coated Steele Blue (RAL 5011)
Dimension (W x H x D)	19.5 x 128 x 173 mm
Weight	100 g

Physical Dimensions



Engineers' Specifications

The eMatrix shall be modular in design and all module cards shall be inserted from the rear. The system shall be able to accommodate 10 module cards in a single frame besides the Central Processing Card and Power Supply Inlet card. The system shall be able to support up to a maximum of 20 audio inputs and 60 audio outputs. It shall allow 8 simultaneous broadcast to any of its 60 audio outputs. The audio outputs shall be expandable to 188 loudspeaker zones. The system shall accept up to a maximum of 128 Dry-contact control inputs and 128 Relay control outputs. The system shall be configured through a Windows-based Graphic User Interface software via PC. After configuration, the system shall be a stand-alone system that does not need any PC connected. The

configuration software shall have 3 access levels of password protection. The system shall provide a built-in internal timer for automatic event scheduling. The system shall automatically perform self-diagnosis and any fault detected shall be recorded or notified. The system shall be able to record up to 3500 events. The eMatrix System shall also feature remote monitoring via WAN or LAN. The system shall accept regulated DC power supply from an external power supply.



www.aexsystem.com

Australia

Singapore

China

Hong Kong

Thailand

Malaysia