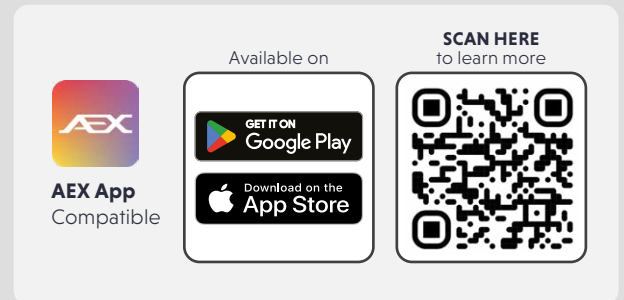


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The Mplus Series was developed with a clear objective; a Public Address System that was reliable and easy to use. A single box solution suitable for virtually any small-to-large scale Public Address system application.

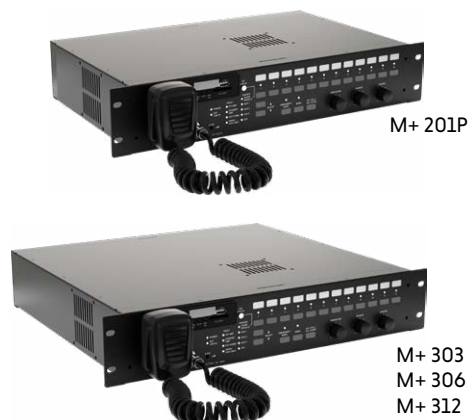


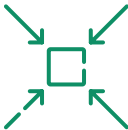
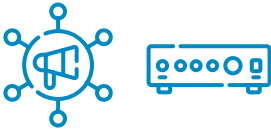
Below we have a few key points why everything build into a single unit saves time and money.

1. Complexity: Having multiple products requires multiple connections, which result in a complex setup and multiple points of failure due to human errors.
2. Increased Cost: Buying multiple products is more expensive than purchasing a single all-in-one solution.
3. Compatibility Issues: The products chosen for the system may not work seamlessly together, leading to compatibility issues that result in a system that does not work.
4. In the M+ everything is integrated into a single unit, eliminating all the above problems, resulting in a more streamlined, efficient, and user-friendly solution.

The Mplus is also extremely light and compact. Technology has allowed AEX System to keep the Mplus extremely compact through advancements in miniaturization, integration of multiple components, and development of software with greater functionality replacing a lot of bulky hardware. This has lead to a smaller product with more capabilities.

The Mplus is based on AEX System's inhouse Class D Power amplifier which are efficient and have a lower operating cost and carbon footprint. There are number of advantage from AEX System Class D amplifier. Learn more →



			
The PA System utilizes eco-friendly high efficiency Class D amplifiers that significantly reduce energy waste and carbon footprint.	Advanced amplifier technology enables extremely low standby power consumption compared to conventional amplifiers, further minimizing electricity usage.	Compact size achieved by the high-efficiency design reduces materials and space required, lowering cost and footprint.	Overall, the innovative PA System delivers top performance while committing to environmental sustainability.
			
The M+ Series Integrated PA system unit has a built-in power amplifier for easy deployment. It provides 12-zone coverage expandable to 96 zones with the LS 12M+ Zone Expander and additional digital power amplifiers.	The M+ Series integrates with the MEI 96M+ Automatic Evacuation Interface, enabling automated evacuation messaging.	The M+ unit has built-in amplifier monitoring and changeover to an external standby amplifier if needed. It also includes an integrated siren and emergency microphone to meet fire regulation codes.	

M+ 201P

- All-in-one integrated PA system controller
- For use with external power amplifiers
- 12 zone outputs, expandable to 96 zones
- Media player: USB, SD, FM, Bluetooth
- Configurable via app: scheduled messages, paging, music
- Supports up to 8 remote mics
- Fire alarm interface triggers warning and evacuation messages
- Built-in siren tones
- Energy efficient design
- Highly scalable solution for medium to large installations

M+ 303 / M+ 306 / M+ 312

- All-in-one integrated PA system compliant with fire codes
- Built-in digital amplifier: 360W, 600W, or 1200W models
- Automatic changeover to standby amplifier
- 12 zone outputs, expandable to 96 zones
- Media player: USB, SD, FM, Bluetooth
- Configurable via app: scheduled messages, paging, music
- Supports up to 8 remote mics
- Fire alarm interface triggers warning and evacuation messages
- Built-in siren tones
- High efficiency Class D amplifier
- Low standby power consumption

Technical Specification

	M+ 201P
Power Requirement	24 Vdc, 0.6 A
Operating Temperature	5 °C to +45 °C
Material & Finish	Mild Steel Casing, Epoxy Coated Textured Black
Dimension	483 x 86 x 250 mm (W x H x D)
Weight	7.2 kg
Audio Interface	
AUX Audio Inputs (c/w Selector switch)	AUX 1: RCA 0 dBV Stereo In AUX 2: RCA 0 dBV Stereo In AUX 3: RCA 0 dBV Stereo In
Audio Output	2 nos. RJ45 0 dBV Mono Balanced Out
M+ 200-DM Digital Media Player	
Supported Formats	FLAC, M4A, OGG, OPUS, WAV, WMA, MP3 (8000, 22050, 44100, 48000 Hz), APE
Audio Sources	USB Mass Storage Flash drive (Max 32GB FAT32) SD Card (Max 32GB FAT32) FM Tuner (87.5~108.0 MHz, autoscans up to 35 channels) 3.5 mm 0 dBV Line In AEX Bluetooth Function with: - Timer Scheduled messages - Wireless App Paging - Remote Message triggering - Timer Scheduled Music
M+ 202-FA Fire Alarm Interface Module	
Fire Alarm Interface Inputs	2 nos Dry Contact: Warning Message (MP3), Evacuation Message (MP3) RS-485 via Fire Alarm Interface, MEI 96M+
M+ 100-PT Time Schedule Message Player	
Configuration method	GUI based Engineering Tool via USB Type-B port
Time Schedule Slots	100 time schedule slots. Repeatable and one-time events.
Time Schedule Data Storage	High speed non-volatile EEPROM
Schedule Message Player	Internal MP3 Player
MP3 Message storage	Onboard 16 GB microSD card
M+ 208-RM Remote Microphone Receiver Module	
Remote Mic Comm Port	RS-485 Serial Communication
Remote Mic Audio Input	0 dBV Balanced Audio
External Zone Control	RS-485 via Remote Microphone, MRM 06-S
Chime	4 tone ascending, 4 tone descending (On-board microSD Card, User replaceable MP3)
M+ 01-EP Emergency Paging Microphone Panel	
Microphone	Dynamic Microphone (Unidirectional)
Frequency Response	280 Hz ~ 9 kHz
Output Impedance	600 Ω balanced
Output Level	-72 dB +/- 3 dB (at 1 kHz)
Mic Activation	Press to talk
Siren	Continuous, On trigger
Messages (MP3)	Preloaded: Warning Message, Evacuation Message, Siren (On-board microSD, User replaceable MP3)
M+ LS12 Zone Expander	
Load handling per Channel	500 W 100 V
Output Zone	12 Zones
Zone Selection	Front Mechanical Push Button RS-485 via MRM 06-S, MEI 96M+
Frequency Response (@ -3dB)	20Hz-20kHz
Signal to Noise Ratio	91 dB (with PS 06)
THD + Noise	< 0.05% @ 0 dBV AUX
Standby Power Consumption	2.8W

Technical Specification

	M+ 303
Power Requirement	AC Mains 110/240 Vac UPS Backup : 550 VA
Operating Temperature	5 °C to +45 °C
Material & Finish	Mild Steel Casing, Epoxy Coated Textured Black
Dimension	483 x 86 x 400 mm (W x H x D)
Weight	8.1 kg
Audio Interface	
AUX Audio Inputs (c/w Selector switch)	AUX 1: RCA 0 dBV Stereo In AUX 2: RCA 0 dBV Stereo In AUX 3: RCA 0 dBV Stereo In
Audio Output	2 nos. RJ45 0 dBV Mono Balanced Out
M+ 200-DM Digital Media Player	
Supported Formats	FLAC, M4A, OGG, OPUS, WAV, WMA, MP3 (8000, 22050, 44100, 48000 Hz), APE
Audio Sources	USB Mass Storage Flash drive (Max 32GB FAT32) SD Card (Max 32GB FAT32) FM Tuner (87.5~108.0 MHz, autoscans up to 35 channels) 3.5 mm 0 dBV Line In AEX Bluetooth Function with: - Timer Scheduled messages - Wireless App Paging - Remote Message triggering - Timer Scheduled Music
M+ 202-FA Fire Alarm Interface Module	
Fire Alarm Interface Inputs	2 nos Dry Contact: Warning Message (MP3), Evacuation Message (MP3) RS-485 via Fire Alarm Interface, MEI 96M+
M+ 100-PT Time Schedule Message Player	
Configuration method	GUI based Engineering Tool via USB Type-B port
Time Schedule Slots	100 time schedule slots. Repeatable and one-time events.
Time Schedule Data Storage	High speed non-volatile EEPROM
Schedule Message Player	Internal MP3 Player
MP3 Message storage	Onboard 16 GB microSD card
M+ 208-RM Remote Microphone Receiver Module	
Remote Mic Comm Port	RS-485 Serial Communication
Remote Mic Audio Input	0 dBV Balanced Audio
External Zone Control	RS-485 via Remote Microphone, MRM 06-S
Chime	4 tone ascending, 4 tone descending (On-board microSD Card, User replaceable MP3)
M+ 01-EP Emergency Paging Microphone Panel	
Microphone	Dynamic Microphone (Unidirectional)
Frequency Response	280 Hz ~ 9 kHz
Output Impedance	600 Ω balanced
Output Level	-72 dB +/- 3 dB (at 1 kHz)
Mic Activation	Press to talk
Siren	Continuous, On trigger
Messages (MP3)	Preloaded: Warning Message, Evacuation Message, Siren (On-board microSD, User replaceable MP3)
M+ 1030-PD 360W Digital Power Amplifier	
Power Amplification	360 W (100V line) Class-D power amplifier
Rated Load Impedance	27.7 Ω
Frequency Response (@ -3dB)	75Hz-20 kHz
Signal to Noise Ratio	>105 dB
THD + Noise	< 1 % (rated power output)
Power Efficiency	>70 %
Standby Power Consumption	33 W
M+ AC01 Automatic Amplifier Monitoring and Changeover	
Max Power Handling Per Channel	360 W
Number of Amplifier channels	2 Channels (1 Duty, 1 Standby)
Changeover Mechanism	Fast switching dry contact relay 10A
M+ LS12 Zone Expander	
Load handling per Channel	500 W 100 V
Output Zone	12 Zones
Zone Selection	Front Mechanical Push Button RS-485 via MRM 06-S, MEI 96M+

Technical Specification

	M+ 306
Power Requirement	AC Mains 110/240 Vac UPS Backup : 900 VA
Operating Temperature	5 °C to +45 °C
Material & Finish	Mild Steel Casing, Epoxy Coated Textured Black
Dimension	483 x 86 x 400 mm (W x H x D)
Weight	8.1 kg
Audio Interface	
AUX Audio Inputs (c/w Selector switch)	AUX 1: RCA 0 dBV Stereo In AUX 2: RCA 0 dBV Stereo In AUX 3: RCA 0 dBV Stereo In
Audio Output	2 nos. RJ45 0 dBV Mono Balanced Out
M+ 200-DM Digital Media Player	
Supported Formats	FLAC, M4A, OGG, OPUS, WAV, WMA, MP3 (8000, 22050, 44100, 48000 Hz), APE
Audio Sources	USB Mass Storage Flash drive (Max 32GB FAT32) SD Card (Max 32GB FAT32) FM Tuner (87.5~108.0 MHz, autotune up to 35 channels) 3.5 mm 0 dBV Line In AEX Bluetooth Function with: - Timer Scheduled messages - Wireless App Paging - Remote Message triggering - Timer Scheduled Music
M+ 202-FA Fire Alarm Interface Module	
Fire Alarm Interface Inputs	2 nos Dry Contact: Warning Message (MP3), Evacuation Message (MP3) RS-485 via Fire Alarm Interface, MEI 96M+
M+ 100-PT Time Schedule Message Player	
Configuration method	GUI based Engineering Tool via USB Type-B port
Time Schedule Slots	100 time schedule slots. Repeatable and one-time events.
Time Schedule Data Storage	High speed non-volatile EEPROM
Schedule Message Player	Internal MP3 Player
MP3 Message storage	Onboard 16 GB microSD card
M+ 208-RM Remote Microphone Receiver Module	
Remote Mic Comm Port	RS-485 Serial Communication
Remote Mic Audio Input	0 dBV Balanced Audio
External Zone Control	RS-485 via Remote Microphone, MRM 06-S
Chime	4 tone ascending, 4 tone descending (On-board microSD Card, User replaceable MP3)
M+ 01-EP Emergency Paging Microphone Panel	
Microphone	Dynamic Microphone (Unidirectional)
Frequency Response	280 Hz ~ 9 kHz
Output Impedance	600 Ω balanced
Output Level	-72 dB +/- 3 dB (at 1 kHz)
Mic Activation	Press to talk
Siren	Continuous, On trigger
Messages (MP3)	Preloaded: Warning Message, Evacuation Message, Siren (On-board microSD, User replaceable MP3)
M+ 1060-PD 600W Digital Power Amplifier	
Power Amplification	600 W (100V line) Class-D power amplifier
Rated Load Impedance	16.6 Ω
Frequency Response (@ -3dB)	75Hz-20 kHz
Signal to Noise Ratio	>105 dB
THD + Noise	< 1 % (rated power output)
Power Efficiency	>70 %
Standby Power Consumption	33 W
M+ AC01 Automatic Amplifier Monitoring and Changeover	
Max Power Handling Per Channel	600 W
Number of Amplifier channels	2 Channels (1 Duty, 1 Standby)
Changeover Mechanism	Fast switching dry contact relay 10A
M+ LS12 Zone Expander	
Load handling per Channel	500 W 100 V
Output Zone	12 Zones
Zone Selection	Front Mechanical Push Button RS-485 via MRM 06-S, MEI 96M+

Technical Specification

	M+ 312
Power Requirement	AC Mains 110/240 Vac UPS Backup : 1750 VA
Operating Temperature	5 °C to +45 °C
Material & Finish	Mild Steel Casing, Epoxy Coated Textured Black
Dimension	483 x 86 x 400 mm (W x H x D)
Weight	8.1 kg
Audio Interface	
AUX Audio Inputs (c/w Selector switch)	AUX 1: RCA 0 dBV Stereo In AUX 2: RCA 0 dBV Stereo In AUX 3: RCA 0 dBV Stereo In
Audio Output	2 nos. RJ45 0 dBV Mono Balanced Out
M+ 200-DM Digital Media Player	
Supported Formats	FLAC, M4A, OGG, OPUS, WAV, WMA, MP3 (8000, 22050, 44100, 48000 Hz), APE
Audio Sources	USB Mass Storage Flash drive (Max 32GB FAT32) SD Card (Max 32GB FAT32) FM Tuner (87.5~108.0 MHz, autotune up to 35 channels) 3.5 mm 0 dBV Line In AEX Bluetooth Function with: - Timer Scheduled messages - Wireless App Paging - Remote Message triggering - Timer Scheduled Music
M+ 202-FA Fire Alarm Interface Module	
Fire Alarm Interface Inputs	2 nos Dry Contact: Warning Message (MP3), Evacuation Message (MP3) RS-485 via Fire Alarm Interface, MEI 96M+
M+ 100-PT Time Schedule Message Player	
Configuration method	GUI based Engineering Tool via USB Type-B port
Time Schedule Slots	100 time schedule slots. Repeatable and one-time events.
Time Schedule Data Storage	High speed non-volatile EEPROM
Schedule Message Player	Internal MP3 Player
MP3 Message storage	Onboard 16 GB microSD card
M+ 208-RM Remote Microphone Receiver Module	
Remote Mic Comm Port	RS-485 Serial Communication
Remote Mic Audio Input	0 dBV Balanced Audio
External Zone Control	RS-485 via Remote Microphone, MRM 06-S
Chime	4 tone ascending, 4 tone descending (On-board microSD Card, User replaceable MP3)
M+ 01-EP Emergency Paging Microphone Panel	
Microphone	Dynamic Microphone (Unidirectional)
Frequency Response	280 Hz ~ 9 kHz
Output Impedance	600 Ω balanced
Output Level	-72 dB +/- 3 dB (at 1 kHz)
Mic Activation	Press to talk
Siren	Continuous, On trigger
Messages (MP3)	Preloaded: Warning Message, Evacuation Message, Siren (On-board microSD, User replaceable MP3)
M+ 1120-PD 1200W Digital Power Amplifier	
Power Amplification	1200 W (100V line) Class-D power amplifier
Rated Load Impedance	8.3 Ω
Frequency Response (@ -3dB)	75Hz-20 kHz
Signal to Noise Ratio	>105 dB
THD + Noise	< 1 % (rated power output)
Power Efficiency	>70 %
Standby Power Consumption	33 W
M+ AC01 Automatic Amplifier Monitoring and Changeover	
Max Power Handling Per Channel	1200 W
Number of Amplifier channels	2 Channels (1 Duty, 1 Standby)
Changeover Mechanism	Fast switching dry contact relay 10A
M+ LS12 Zone Expander	
Load handling per Channel	500 W 100 V
Output Zone	12 Zones
Zone Selection	Front Mechanical Push Button RS-485 via MRM 06-S, MEI 96M+