

DMA-20 DIGITAL WALL AMP MODULE

The G9 DMA-20 is a small Class D professional digital stereo amplifier module with an output of up to 10 watts at 4 Ohms and 6 watts at 8 Ohms per channel. It has a built in universal switch-mode power supply operating 90v – 245v 50/60Hz and the complete Amplifier/PSU module is a small “foot print” measuring only 86mm x 86mm x 61mm in depth.

The exceptional audio performance DMA-20 installation product has been designed with the knowledgeable professional installer in mind, making it simple to fit and connect with a wall back-box provided and simple screw terminals for electrical and audio connection. There is also a mini break-jack provided on the front panel giving an auxiliary local audio feed to the system, such as an Ipod or similar external stereo sound source. The DMA-20 is an ideal installation amplifier module to work in conjunction with suitable quality full range ceiling speakers such as the G9 CFR-534, or full range compatible wall mounted speakers.



- **Hotel zone rest areas** – Allowing the availability of individual gain control in an area to suit the occasion.
- **Hotel rooms** - Low cost/high quality sound installation to individual mid priced hotel rooms allowing “piped music” from a hotel sources including TV/DVD sound. Plus the availability of Hotel guests to use the mini jack facility to play their own music from laptop or Ipod type sources with local gain control.
- **Small Conference centre meeting rooms** - Allowing a central audio source, as well as auxiliary input via the mini jack for local audio requirement.
- **School classrooms** – An inexpensive solution, that adds a facility for school-wide announcement in every classroom, as well as local playback of audio whether sourced from a central point, or using the mini jack input for local use via computer, TV/DVD or another audio source.
- **Hospital rooms** – Patients have access to central audio source TV/DVD plus the possibility to use own audio source via mini jack.
- **Bar areas and restaurants** - Allowing the availability of individual gain control to suit the occasion.

The DMA-20 audio module system is a space saving, neat unobtrusive design, offering high quality audio with local gain control and an auxiliary input for local use. The system allows the potential for installations to offer customers choice, features, quality and comfort in dealing with zoned, or local sound. Your consideration to customer choice and flexibility will be seen as a far greater benefit to them, than the installation cost of introducing the DMA-20. A quality basic audio system that allows your customers an affordable solution whether it's in a small room, or a locally zoned area, it allows audio control for all occasions.

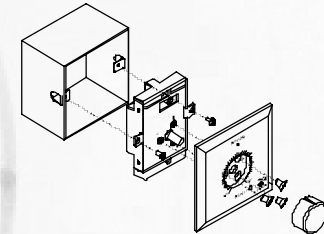
NOTE: G9 RESERVES THE RIGHT TO CHANGE SPECIFICATION WITHOUT NOTICE.



The DMA-20 module is a Dual Class-D Amplifier equipped with the 'pure pulse direct speaker driver circuitry,' an advanced development in speaker drive circuitry that delivers superior sound quality. It boasts exceptionally low levels of noise and distortion while at the same time reducing the number of external components required and therefore the size of unit. In conventional Class-D Amplifier chips, the speaker is connected directly to an LC filter (a low-pass filter comprised of a coil L and condenser C), which eliminates the modulating signal contained in the output signal. The DMA-20 integrated IC utilises the 'pure pulse direct speaker driver circuitry,' design which is a scaled-down LC filter enabling the chip to drive the speaker through a direct connection. This setup eliminates sound degradation associated with the use of LC filters and reduces the number of LC filter components. It should be noted that conventional, filter-less Class-D Amplifier chips that are designed solely to reduce the number of LC filter components suffer two shortcomings: a) The reacting voltage of the speaker's voice coil degrades sound quality. b) The fluctuations in power supply voltage distort the pulse output signal and create noise. By using the direct drive system the DMA-20 therefore substantially reduces distortion and the design has another great advantage in reducing power consumption by 75% when compared to existing 10w analogue amplifier chips. This allows a much smaller heat sink to be used, giving an excellent audio sound system that is as small as a single mains plug outlet.



WALL BACK-BOX



Audio Logical!

DMA-20 Wall amp Specifications

Power Output:	8Ω	6w
(1kHz 0.1% THD)	4Ω	10w
Bandwidth:	25Hz-16kHz ± 0.5dB	
Frequency response:	+0dB ± 3dB From 20Hz to 20kHz at 1 watt	
Phase:	± 0.1 degrees From 10kHz to 20kHz at 1 watt	
Signal to Noise ratio:	>80dB	
Distortion:	≤0.1% rated power @ 8Ω	
THD:	≤0.1% rated power @ 8Ω 1kHz	
Crosstalk:	>50dB	
Slew Rate:	16 v/μs (stereo)	
Impedance:	10k/20k ohms, unbalanced or balanced	
Dimensions:	86 x 86 x 61 mm	
Dimensions: (in Wall)	72 x 53 x 39 mm	
AC Power:	~90v – 245v 50/60Hz	

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