

DMS™ 2.1: Distributed Music System



Zones: 32
Sources: 2
Cable: one category 5 wire
Chassis: standard 2- rack unit
Maximum distance: 3000'
Temperature Range: -40 to 85 degrees C

Pragmatic's DMS™ 2.1 allows you to give your customers an elegant distributed music system. It is very simple to operate, highly reliable and easy to install. The DMS™ 2.1 system delivers high quality audio at an affordable price. This simple yet elegant system provides unequalled sound quality with cable that runs to 3000 feet. It distributes audio signals to more than 32 listening areas using only a single category 5 wire. The cables can be home run into a patch bay or can be daisy-chained. DMS™ 2.1 finds applications in industrial and commercial installations including hotels, restaurants, sports bars, shopping malls, arcades, and theme parks.

The DMS™ 2.1 offers complete music distribution with paging solution on a cost effective category 5 wire. The in-wall amplifiers with volume control are locally powered (can be centrally powered on an 18/2 AWG along with the category 5 for signal) and daisy chained from one in-wall amplifier to another. Maximum of 32 volume-controlled amplifiers can be daisy-chain connected on a single category 5 wire. Further expansion is possible with additional repeater unit.

The system transmitter comes in a compact rack-mount enclosure. It has a built-in multi-channel audio switcher that can be controlled by an infrared remote control or a RS232/RS485 connection and a TPA™ transmitter to connect to the category 5 wire. A basic remote receiver in a single junction box connects to the category 5 wire to power the speakers directly. These include the TPA™ receiver, a rotary volume control, and the MBA™ high-performance, high-efficiency 24 Watt mono-block amplifier. The audio signal-to-noise ratio is about 96 dB, and has 20 KHz of audio bandwidth and less than 0.1% distortion. The unit operates on a standard 12 V DC power supply and has an operating temperature range of -40 to 85 degrees Celsius, so it can operate in harsh environments.

The DMS™ 2.1 uses Pragmatic's proprietary SuperTranz™ circuit to eliminate any possibility of ground loops, AC voltage interference, noise pick-up, or hum introduction into the signal path. The DMS™ 2.1 works on category 5, category 3, and even unshielded telephone grade twisted pair wire. Despite using economical wires, DMS™ 2.1 is superior to traditional music distribution systems in performance and cost.

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Applications:

Multiple room audio system in residential markets
Commercial installations in hotels, restaurants, sports bars, shopping malls, arcades, theme parks, gyms, etc.
Audio and Video supplied to rooms on category 5 wires
In-wall amplification to rooms

Features & Benefits:

Cable runs up to 3000 ft.
Easily integrated with TPA™ receiver and the MBA™ amplifier
High quality audio
High quality audio amplifier
Affordable price
Easy to operate
Simple installation
Works off inexpensive wires
Eliminates the need for rewiring

Possible input and local controls include:
DMS-KP: DMS Keypad for control only
IWA-KP: In-Wall 2x24W with keypad
IWA-IRS: In-Wall 2x24W with IR control only
IWA-IRM: In-Wall 1x24W with IR control only

Architect Specifications:

The unit shall be housed in a standard rack unit. Its cable shall be able to run up to 1000 feet on a single category 5 wire. It shall also have the option of a high quality amplifier. The cable shall run from the main unit into an in-wall amplifier with keypad for amplification and control. It shall be easily integrated with TPA™ receiver and MBA™ amplifier. It shall have multiple options for input and local control including DMS™-KP, IWA-KP, IWA-IRS, and IWA-IRM. It shall be simple to install and operate and be highly reliable.

The unit shall be a Pragmatic DMS™ 2.1.

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