





## Xenteth

2009 Digital Delivery System







## Category-5 Audio Without the Compromises

If you wanted to break away from old style audio wiring and simplify your installations using Category-5 cabling, you had two choices.

You could settle for a low-powered system with analog amplifiers in volume controls. But these are background music quality, adequate for casual indoor listening but not capable of playing music outdoors. And long-term overdriving of such a system can lead to speaker damage and expensive, time-consuming callbacks. Or, you could go with a digitally-enabled networked system. But they can be complex to install (many require IP addressing), expensive, and difficult to maintain.

But with Xantech's Digital Delivery System (DDS) technology, you can have it all: a high-performance Category-5 wired system with digital quality and analog simplicity. DDS is ideal for the needs of the next generation of home buyers. DDS is easy to scale and build on, with four-room modular building block design. It uses the fraction of the power of a conventional centrally-amplified system, yet has more than enough audio output power to run large indoor zones with four speakers and outdoor zones as well. And DDS is more efficient to specify and install—it goes in faster, is easier to connect and configure, and uses less expensive wiring than most conventional analog central amplifier systems.

Simple, elegant OLED keypads provide precise, intuitive control of system and sources. And the system's all-digital clean, stable higher power ensures longer speaker life and fewer service issues. Most important, as the newest approach to installed digital sound, DDS is from Xantech, the brand which invented audio/video control and has over forty years of leadership in the field.







## Advantages of DDS technology

- All-digital signal from source to amplifier—signal integrity is maintained over long distances
  without distortion entering the audio chain.
- Digital amplification—DDS delivers high audio power (30 Watts) to each keypad-controlled zone over Category-5 cabling, eliminating the need for costly "home run" speaker wiring (speakers connect directly to the high-output keypads).
- Efficient operation—DDS digital amplifiers use a fraction of the electrical power of a conventional
  analog amplifier and generate very little heat, making DDS the perfect entertainment technology
  partner for tomorrow's more energy-efficient homes.
- Intuitive keypads—the keypad's super-bright OLED display provides precise control over all audio and source functions including dedicated equalization for each room. Mini-remotes extend ease-ofoperation in any room.
- Outdoor music distribution capability—the higher output power of DDS makes it ideal for including
  an outdoor zone; the 30 Watt amplifier has sufficient headroom to run more demanding speakers.
- Large-room capability—30 Watt DDS amplifier keypad can be 'zone paired' on any hub, making combined zones easy to create for large areas such as dining rooms and kitchens.
- Local source operation—available local source wall-plate allows users to play a local source (MP3, PC, CD player, etc.) in any room either using digital or analog output from that source.
- More cost effective system design and installation—pre-wiring is simpler and more economical
  (up to 65% lower than typical audio system cabling) since most system wiring uses standard
  Category-5 network cabling. Installation and set-up require less time and effort than typical
  home-run centrally-amplified multi-zone systems. Choice of single or multi-source operation
  provides an effective "better/best" approach for installers.
- Flexibility and expandability— both rack-mount and wall/panel-mount configurations are available
  for any system design. The DDS building-block approach is ideal for tomorrow's smaller housing
  floor-plans—a basic four-zone system can be easily expanded with expansion components to
  any size needed (up to 28 zones total). DDS systems can be integrated with other whole-house
  control systems through a communication port.



Because its all-digital distribution method uses Category-5 cabling from audio source to amplified keypad instead of costly dedicated speaker-wire runs, a DDS package can be up to 65% cheaper to pre-wire

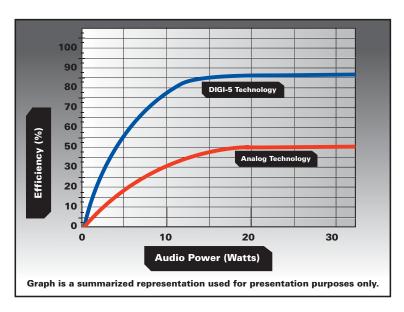








DDS technology delivers the audio power necessary to bring digital music outdoors, making it the ideal entertainment solution for active homebuyers.



DDS amplifier technology is more than 35% more efficient than a conventional amplifier





## 4 - SOURCE 4 - ZONE KIT - EQUIPMENT RACK

### **FEATURES:**

- Digital Delivery System (DDS)
- · Complete multi-room audio package
- · Controls up to four sources
- · Distributes audio up to four zones
- 30 Watts Digital Amp
- · Super Bright OLED Display
- · Studio Slim Design
- Fits in Decora® Plate

ORDER: D5RHK

## **GENERAL INFO:**

- (1) Equipment Rack 4x4 Hub
- (4) Mini Remotes
- (4) DIGI-5 Keypads
- (4) 283D Emitters

International Version Available

Order: D5RHKE



## 4 - SOURCE 4 - ZONE KIT - WALL MOUNT KIT

## **FEATURES:**

- Digital Delivery System (DDS)
- · Complete multi-room audio package
- · Controls up to four sources
- · Distributes audio up to four zones
- · Sources can be remotely located
- · Based on Wall Mount hub
- · Fits most structured wiring systems
- 30 Watts Digital Amp
- Super Bright OLED Display
- Studio Slim Design
- · Fits in Decora Plate

ORDER: D5SHK4

## **GENERAL INFO:**

- (1) Wall Mount 4x4 Hub
- (1) Wall Mount Power Supply
- (4) Mini Remotes
- (4) 283D Emitters
- (4) DIGI-5 Keypads
- (4) Local Source Input Plates
- (1) 110 Punch-Down Tool

International Version Available

Order: D5SHK4E









## **FEATURES:**

- · Digital Delivery System (DDS)
- · Complete multi-room audio package
- · Controls a single source
- · Distributes audio up to four zones
- · Source can be remotely located
- · Based on Wall Mount hub
- · Fits most structured wiring systems
- 30 Watt Digital Amp
- Super Bright OLED Display
- · Studio Slim Design
- Fits in Decora Plate

**ORDER: D5SHK** 

#### **GENERAL INFO:**

- (1) Wall Mount 1x4 Hub
- (1) Wall Mount Power Supply
- (1) Mini Remote
- (1) 283D Emitters
- (4) DIGI-5 Keypads
- (1) Local Source Input Plates
- (1) 110 Punch-Down Tool

International Version Available

Order: D5SHKE



















## 4 - SOURCE 4 - ZONE EQUIPMENT RACK HUB

#### **FEATURES:**

- Digital Delivery System (DDS)
- · Digital coax audio inputs
- . Analog Left & Right audio inputs
- · Audio input level control
- · Audio clipping indicators
- . Serial RS-232 control port
- Paging & Doorbell compatible
- IR emitter outputs
- Zone pairing for combining keypads in a zone
- Zone power output for longer distances
- · Expansion capability

#### ORDER: D5RH

#### **GENERAL INFO:**

- $\sim$ 120V 50/60Hz Power Supply: 240W max.
- Dimensions: 17"W x 14.25"D x 2.41"H
- · Optional RM1UKIT rack ears available

International Version Available

Order: D5RHE







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## **6 - ZONE EQUIPMENT RACK EXPANSION HUB**

## **FEATURES:**

- Digital Delivery System (DDS)
- Audio Loop-Thru connection from master hub
- · Audio input level control
- · Serial RS-232 control port
- · IR emitter outputs
- Zone pairing for combining keypads in a zone
- · Zone power output for longer distances

**ORDER: D5XH** 



- ~120V 50/60Hz Power Supply: 240W max.
- Dimensions: 17"W x 14.25"D x 2.41"H
- Optional RM1UKIT rack ears available

International Version Available

Order: D5XHE





## 4 - SOURCE 4 - ZONE WALL MOUNT HUB

#### **FEATURES:**

- Digital Delivery System (DDS)
- 4 Source 110 punch-down inputs
- 4 Zone 110 punch-down outputs
- 4 Source Loop-Thru, expansion capable
- Zone power output for longer distances
- . Serial RS-232 control port

**ORDER: D5SH4** 

#### GENERAL INFO:

- · Requires D5PS Power Supply
- Requires D5IP Source Input Plate
- Mounting Holes: 6" Width, 4" Height (structured wiring enclosed compatible)
- Dimensions: 6.50"W x 1.89"D x 6.80"H



## SINGLE SOURCE 4 - ZONE WALL MOUNT HUB

#### **FEATURES:**

- · DIGI-5 Technology
- Single Source 110 punch-down inputs
- · 4 Zone 110 punch-down outputs
- Single Source Loop-Thru, expansion capable
- Zone power output for longer distances
- · Serial RS-232 control port

ORDER: D5SH

## **GENERAL INFO:**

- · Requires D5PS Power Supply
- . Requires D5IP Source Input Plate
- Mounting Holes: 6" Width, 4" Height (structured wiring enclosed compatible)
- Dimensions: 6.50"W x 1.89"D x 6.80"H







## **WALL MOUNT POWER SUPPLY**

#### **FEATURES:**

- Universal input 100 to 240VAC, 50 to 60Hz
- Incredible efficiency (up to 89%)
- · Standard IEC power cord compatible
- · Over voltage protection
- Over temperature protection
- · Standard IEC power cord compatible

ORDER: D5PS

#### **GENERAL INFO:**

- 24VAC, 8.3A rated
- · Intended for Wall Mount hubs
- Mounting Holes: 6" Width, 3" Height (structured wiring enclosure compatible)
- Dimensions: 6.55"W x 1.74"D x 4.50"H

Shipped with International power cords

Order: D5PSE



## **LOCAL SOURCE INPUT PLATE**

## **FEATURES:**

- · Digital coax audio inputs
- Analog Left & Right audio inputs
- · Audio input level control
- IR emitter output
- RJ45 Connection

ORDER: D5IP

## **GENERAL INFO:**

· Decora style, fits into a single-gang box



## DIGITAL DELIVERY SYSTEM KEYPAD AND DIGITAL AMPLIFIER

## **FEATURES:**

- . Digital Delivery System (DDS)
- · Built-in digital amplifier
- · Source selection control
- · Volume level control
- · Bass, treble, balance control
- Back-lit buttons with timeout control
- RJ45 Connection
- 30 Watt Digital Amp

ORDER: D5KP

#### **GENERAL INFO:**

- · Decora style, fits into a single-gang box
- · Includes a decora ® plate for a flush fit









## DIGITAL DELIVERY SYSTEM KEYPAD AND DIGITAL AMPLIFIER UK/EU VERSION

#### **FEATURES:**

- Digital Delivery System (DDS)
- · Built-in digital amplifier
- · Source selection control
- Volume level control
- · Bass, treble, balance control
- · Back-lit buttons with timeout control
- 30 Watt Digital Amp

UK/EU Version ORDER: D5KPE



## **DIGITAL DELIVERY SYSTEM KEYPAD COLOR KIT**

## **FEATURES:**

- Digital Delivery System (DDS)
- Includes additional Screwless Trimplate & Bezel
- · Black, Almond, and Ivory color
- Color Kit for D5KP

**ORDER: D5KCK** 

## MINI REMOTE

#### **FEATURES:**

- · Palm-sized remote control
- Source selection functions
- Volume control functions
- MUTE and POWER functions

ORDER: D5MR GENERAL INFO:

. Includes Lithium Battery



## **ADVANCED LEARNING REMOTE**

#### **FEATURES:**

- · Hand-held remote control
- · Programmable four source
- · Compatible with all major components
- · Pre-programmed with DIGI-5 controls
- · Compatible with all major components
- Dedicated DIGI-5 volume and source controls
- . 3 IR macro function buttons

## ORDER: D5MR GENERAL INFO:

- · Includes batteries
- · Built-in IR code library

## **IU RACK EAR KIT**

#### FFATURES.

- For use with 19" Equipment Rack hubs
- Easy to install

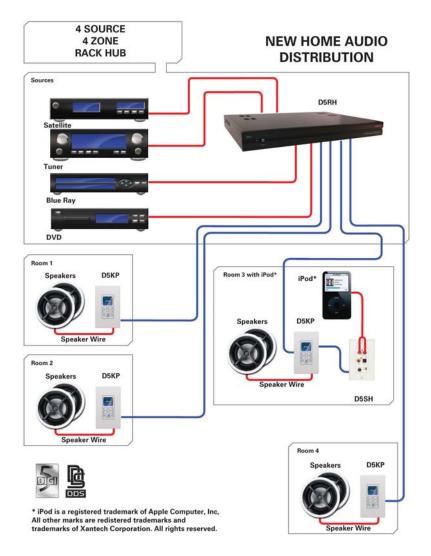
ORDER: RM1UKIT GENERAL INFO:

· Includes left and right ears and hardware





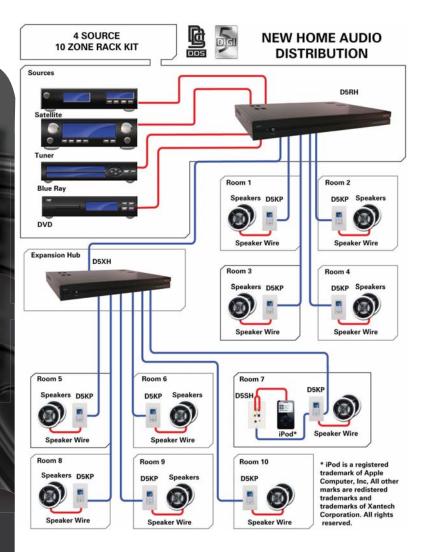




Distribute high-performance audio to 4 locations or more. The expandable master hub is centrally located while the source components can be conveniently located in the entertainment center. DDS technology delivers high-power amplification eliminating the need for special high efficiency speakers.

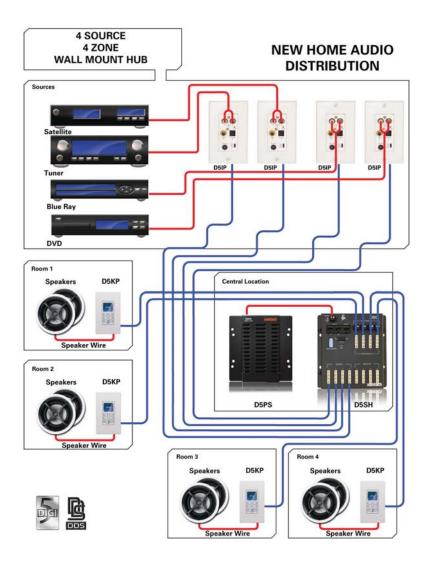








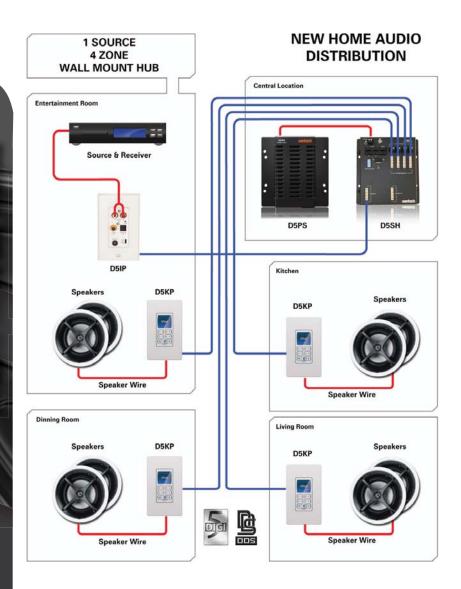










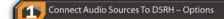






## **Start Here**

- ★ Determine the best location for the D5RH and all audio source equipment (CD player, radio tuner, iPod®, etc.)
- TRun a Cat5 wire from each room (Zone) keypad location to the D5RH
- ★ Run speaker wiring (16 gauge is recommended) from each keypad location to the corresponding speakers located in each room
- \*Be sure to label all wires for easy identification
- Turn off power to the D5RH (Switch located on the front)



## A – Digital Coax Setup

For audio sources with a digital coax output, connect the digital coax output to the D5RH Digital Coax Input with a coaxial cable.





## B – Digital Optical Setup

For audio sources with a digital optical output, connect the digital optical output to the D5RH Digital Optical Input with a optical cable.





#### C - Analog Setup (Source Inputs 3 & 4 only)

For audio sources with an analog audio output, connect the analog output to the D5RH RCA Input with a stereo RCA cable.



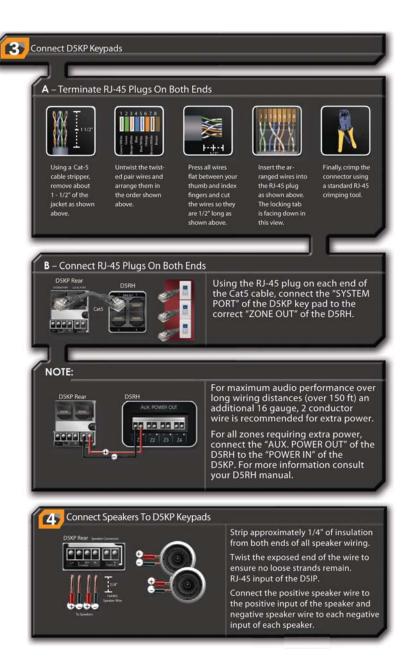




Connect the 3.5mm plug of each IR emitter into the designated port of the D5RH. The four IR ports labeled 1-4 are source specific. For example, IR port "1" must be mounted to the audio source connected to "source input 1". The "ALL IR OUT" port is constantly active, and passes IR information regardless of the source selected.



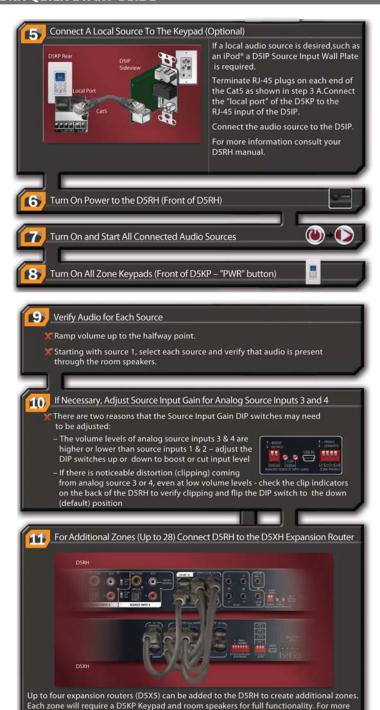








## **D5RH QUICK START GUIDE**

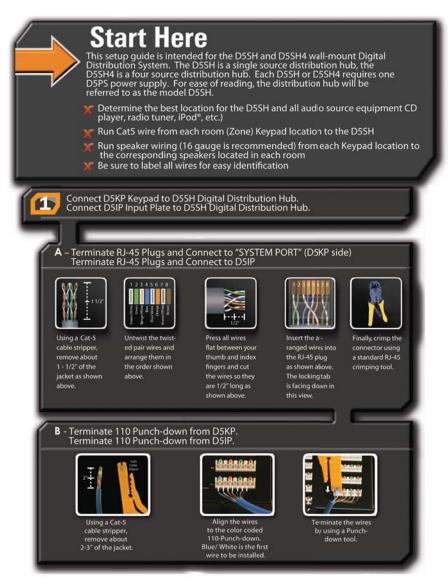






information consult your D5RH manual.

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If a local audio source is desired, such as an iPod \* a D5IP Source Input Wall Plate is required. Terminate RJ-45 plugs on each end of the Cat5 as shown in step 1A. Connect the "local port" of the D5KP to the RJ-45 input of the D5IP. Connect the audio source to the D5IP. For more Information consult your D5IP manual



#### **NOTE:** Connect D5KP Keypads



For maximum audio performance over long wiring distances (over 150ft) an additional 16 gauge, 2 conductor wire is recommend for extra power.

For all zones requiring extra power, connect the "24 VDC POWER OUT" of the D5SH to the "POWER IN" of the D5KP. For more information, consult the D5SH manual.

## Connect Speakers To D5KP Keypads



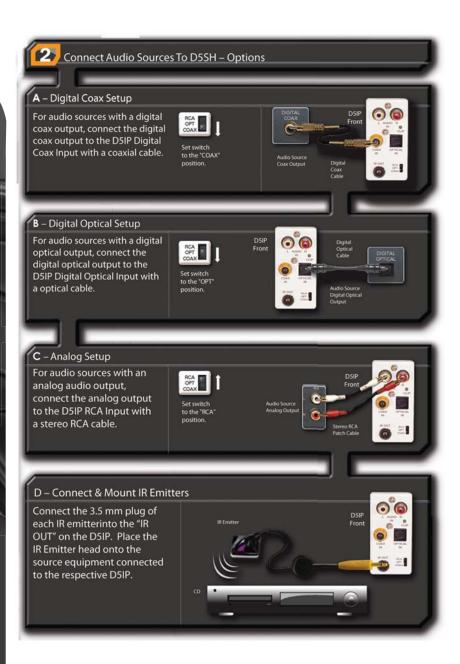
Strip approximately 1/4" of insulation from both ends of all speaker wiring.

Twist the exposed end of the wire to ensure no loose strands remain.

Connect the positive speaker wire to the positive input of the speaker and negative speaker wire to each negative input of each speaker.











## **D5SH QUICK START GUIDE**



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