

For Pure, Digital Audio, Just Say Encore!



Winner...
Innovative House Technology
Award for Multi-Room
Audio/Video



End-to-End Digital Sound

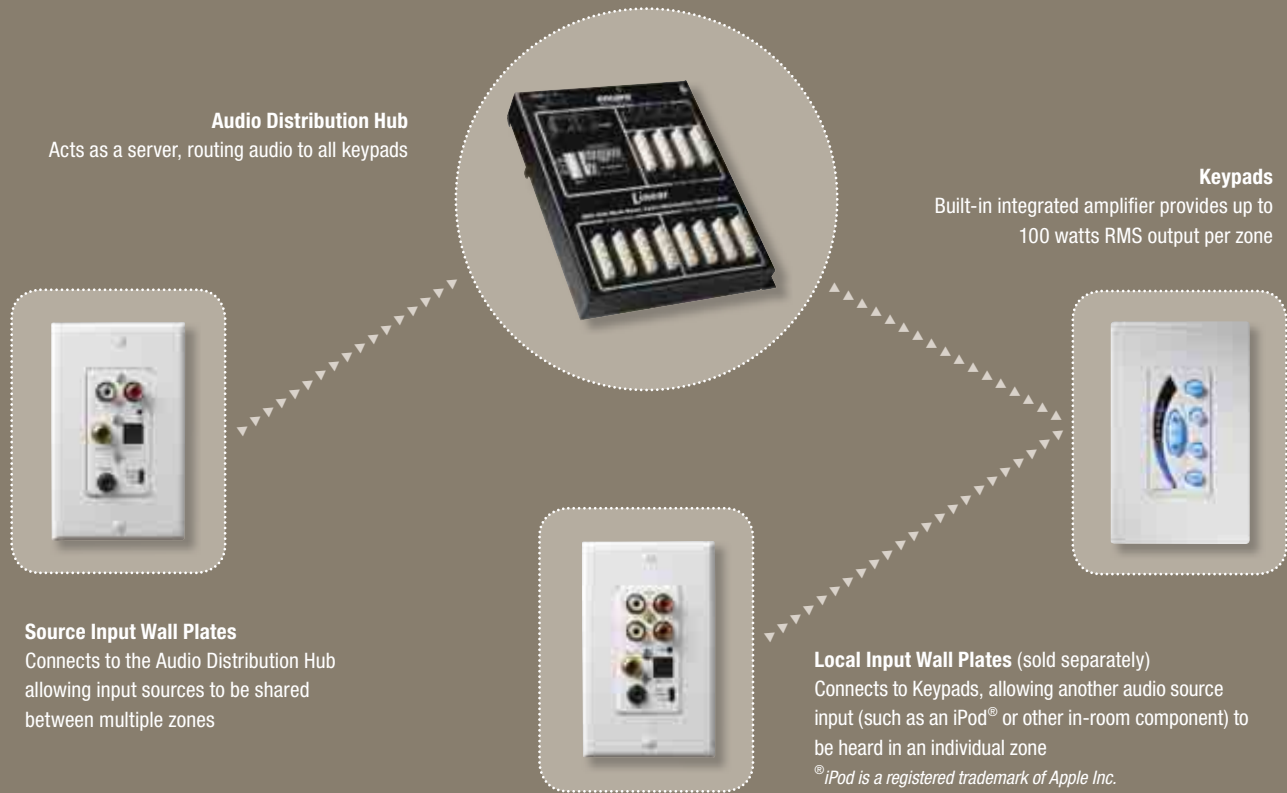
Linear's Encore Digital Audio Distribution System with DIGI-5 technology is a groundbreaking, multi-source/multi-room music system providing superior audio distribution capabilities and sound quality.

The standard Encore system routes up to four audio sources for up to four zones/rooms, and is expandable to 32 zones using additional Encore System Hubs and Keypads.

Key features of the Encore system:

- **Digital Sound Quality** – Using high-grade analog-to-digital converters, Encore routes 24-bit digital audio (better than CD quality) between input sources and all connected keypads.
- **High Power Output** – Each keypad features a powerful, integrated digital amplifier providing up to 100 watts RMS output per zone at less than 1% total harmonic distortion.
- **In-Zone Customization** – Users can select sources, adjust volume, balance, bass, treble and other features for each room, to adapt the sound to individual room acoustics.

Connect the Encore Digital Audio Distribution System with ease using these four components:



Advantages of DIGI-5 Audio Distribution Technology

The DIGI-5 platform and its patent-pending technology is the only multi-room audio distribution system that delivers affordable, scalable, easy-to-install, high-quality digital sound with the following benefits:

Lossless, CAT-5 Based Digital Audio Distribution

DIGI-5 delivers audio content, loss-free, to each listening area by converting analog source signals into a high-quality 24-bit digital format and by accepting native digital audio directly from source components. This greatly increases the length that each CAT-5 cable can be run without signal degradation or noise ingress.

High-Efficiency Digital Amplification

Ultra-efficient amplifier design results in a dynamic sound that is bold, clean and detailed. It also allows for a compact size, enabling Keypad installation in a single-gang footprint, resulting in an elegant, non-intrusive look that blends in well with any home or office décor.

Low Cost, CAT-5 Based Multi-Room Installation

DIGI-5 eliminates the need for higher cost specialty cables and long, heavy-gauge speaker wire runs, reducing overall wiring costs by as much as 65%. Digital audio, IR commands, Keypad communications and power is routed to and from each zone with only a single CAT-5 cable through a patent-pending bi-directional, two-wire, two-way communications protocol.

Scalability

DIGI-5 based systems can be scaled to meet various entertainment and budget requirements. The system is easily expanded up to 32 zones by adding Distribution Hubs and Keypads.

Encore System Components



Audio Distribution Hub (ENC-HUB)

- Routes four Source Input Wall Plates and four Keypads for a 4-source, 4-zone digital audio distribution system
- Use as a 4-Zone Expansion Hub for an existing system
- Keypad power-boost output terminals
- Zone pairing – groups multiple zones together for large rooms



Local Input Wall Plate (ENC-LIWP)

- Provides connectivity to an Encore Keypad for an audio input that can be used as a fifth source within a discreet zone
- High-grade A/D converters transform analog source material into 24-bit digital format
- Additional optical and coaxial input jacks



Encore Keypad (ENC-DRS)

- Provides local control of all system functions:
 - Source selection and volume level
 - Tone control (bass/treble adjustment)
 - Balance, loudness and dynamic compression
 - Mute, do-not-disturb and whole-house music modes
- Built-in Class D Digital Amplifier provides up to 100 watts RMS output power per zone at less than 1% THD
- Built-in IR engine allows for control of all connected sources
- Auto-fading backlit buttons
- Includes white keypad bezel and screwless wall plate (black and almond also available)

Encore Standard Remote (ENC-REM)

- Provides local control of system functions: source selection, volume control, mute and power
- Credit card size remote control
- Magnetic strip allows remote to stick to metallic surfaces



Encore Learning Remote (ENC-LRM)

- Provides control of all system functions and source components
- Programmable 4-source capable with built-in IR code library
- Pre-programmed with Encore controls
- Compatible with major source components
- Dedicated volume, source, bass, treble and balance controls



Source Input Wall Plate (ENC-SIWP)

- Provides connectivity to the Audio Distribution Hub for an input source that can be shared throughout the entire system
- High-grade A/D converters transform analog source material into 24-bit digital format
- Additional optical and coaxial input jacks

Single-Head IR Emitter (2171-4)

- Repeats IR signals from Keypads through Input Wall Plates to source components
- Ten-foot cord with mini plug
- Adhesive back on emitter



Encore Audio Distribution System Kit (ENC-KIT-M)

- (1) - Audio Distribution Hub & Power Supply
- (4) - Encore Amplified Keypads
- (4) - Source Input Wall Plates
- (4) - IR Emitters
- (1) - Standard Remote
- (1) - H275 Universal Mounting Bracket



Specifications

Base System (ENC-KIT-M)

System Source Inputs	4
Keypad Outputs/Zones	4

Maximum Capabilities

System Source Inputs	4
Audio Distribution Hubs	8
Keypad Outputs/Zones	32
Local Input Wall Plates	1 per Keypad
Quantity of Paired Zones	up to 4 per Audio Distribution Hub
Pairs of 8-ohm Speakers per Keypad	2
CAT-5 Cable Run Distances	
Source Input to Hub	> 500 ft
Hub to Keypad	> 500 ft
Doorbell Interrupt	RJ-45 Connected Relay
Intercom Interrupt	@ Audio Distribution Hub

CAT-5 Connectors

Source Input Wall Plates	RJ-45
Local Input Wall Plates	
Audio Distribution Hubs	RJ-45 for hub expansion 110 punch down music/data/power
Keypads	110 punch down
CAT-5 Standard	T568A

Audio

Analog Conversion	
Resolution	24-bit
Sample Rate	48 kHz
Analog source input impedance	50K-ohms
Analog source input overload	2.4 Vrms
Frequency Response	20 Hz – 20 kHz ± 1dB 26 Hz – 18 kHz ± .25dB
Equalization	
Bass	± 10dB @ 30 Hz in 2dB increments
Treble	± 10dB @ 12 kHz in 2dB increments
Loudness Feature	Fully Dynamic / Output Compensating
Dynamic Compression Thresholds	-19dB Attack / -22dB Release

More sales tools are available from Linear, including postcards and an Encore system sales brochure for installers and homeowners.

Contact Linear to request these materials. For more details about other system components and features, visit www.linearcorp.com or call **1-800-421-1587**.

Amplified Keypads

Continuous Average Output Power (RMS) (2 channels driven at < 1% THD)			
	8-ohm speakers	6-ohm speakers	4-ohm¹ speakers
Up to 150 ft with CAT-5 Power Plus 16/2 auxiliary boost			
	60 watts	80 watts	100 watts
CAT-5 Power Only	< 10 ft	60 watts	80 watts
	50 ft	44 watts	58 watts
	100 ft	34 watts	46 watts
	150 ft	26 watts	34 watts
Dynamic Range (A-Weighted)		96 db	

Infra-Red

Output Drive Current	12 mA
Output Drive Voltage	12 VDC
Frequency Range	
Narrow Band Receiver	38 kHz
Wide Band Receiver	30 kHz - 100 kHz
IR Range	
Standard Remote	20 - 30 ft
Learning Remote	25 - 35 ft

Dimensions (depth x width x length in inches)

ENC-DRS Keypad ²	2.6 x 1.8 x 4.1
ENC-SIWP/ENC-LIWP Input Wall Plates ²	2.9 x 1.3 x 4.1
ENC-HUB Audio Distribution Hub	1.9 x 6.3 x 6.8
ENC-PS Power Supply	2.1 x 6.3 x 8.5

Power Supply (per 4-zone Hub and connected Keypads)

Input	120 VAC 60 Hz, 1.2 A Avg
Output	26 VDC
Power Consumption Maximum	200 W
Power Consumption Standby	20 W

¹ Encore keypad amplifiers are not rated for use with speaker impedance loads of less than 4-ohm.

² Designed to fit within a single-gang opening using open back low voltage rings or within junction boxes having a minimum unobstructed depth of 2.75 inches. Patents Pending

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