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DOLBY DP567 DIGITAL ENCODER

DOLBY DP567 TWO-CHANNEL DIGITAL ENCODER



The Dolby DP567 is a two-channel Dolby Digital audio encoder unit ideally suited for such applications as digital TV broadcasting, digital cable installations, and DVD authoring.

Both digital and analog inputs are provided to allow encoding of any mono or stereo audio signal. Already encoded audio bitstreams, such as Dolby Digital 5.1-channel surround-sound signals, pass through the system unaffected—automatically if the DP567's bitstream detection feature is activated. In its stereo mode, the DP567 preserves the matrix encoding on Dolby Surround input signals.

A two-line, 16-character alphanumeric LCD shows status parameters, while tri-color LEDs indicate channel activity. Front-panel controls include pushbuttons for entering configuration parameters, controlling the front-panel display, and controlling factory default and user-definable preset modes. Front- and rear-panel serial interfaces allow the DP567 to be configured and controlled from a PC or other remote device.

A separate AES/EBU input may be used for a clock reference signal, and also as an input for a bitstream multiplexing feature that allows multiple encoded audio signals to be included in a single AES/EBU signal. Pre-encoded signals may come from other sources or multiple DP567s connected in a daisy-chain fashion.

Two connectors are also provided for general-purpose I/O signals, including status and control signals. Fault-monitoring circuits warn of actual or potential system failure, and bypass connections are provided so that the DP567 may be used in a hot-standby mode in broadcast installations.



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ABOUT DOLBY DIGITAL

Dolby Digital is a perceptual audio coding algorithm that takes advantage of auditory masking and both intra- and inter-channel redundancy to enable the efficient storage and transmission of high-quality digital audio.

Dolby Digital is, in fact, a family of processes with number of channels and bit rate tailored to particular applications, such as 5.1 channels at 384 or 448 kbps for consumer surround sound formats and two channels at 192 kbps for stereo distribution. Additional features include the ability of consumer decoders to downmix multichannel bitstreams for mono, stereo and Dolby Surround playback, ensuring full compatibility under a wide variety of listening conditions.

Conceived originally as a multichannel coding system, Dolby Digital was first introduced in 1992 for cinema sound. Due to its combination of audio quality, bandwidth efficiency, and flexibility, Dolby Digital has since become available on laser disc, a mandated audio format for DVD-Video worldwide, the audio standard for ATSC digital broadcast TV, and increasingly popular for digital cable and satellite applications.

- Laser disc
- DVD video disc
- DVD-ROM
- ATSC digital television broadcasting
- Digital cable and DBS systems

Dolby Digital has the ability to mix multichannel bitstreams down to fully compatible mono, stereo and Dolby Surround soundtracks, ensuring appropriate playback under a wide variety of conditions. Typical applications include 384 or 448 kbps for 5.1-channel Dolby Digital consumer formats and 192 kbps for two-channel distribution.

Dolby Digital

Data Rates and Channel Modes

Total Data Rate (kbps)	Channel Modes*
56,64,80	1/0
96,112,128,160,192,224,256,320,384,448,512,576,640	1+1,1/0,2/0

*1/0 represents mono, 1+1 represents dual mono, 2/0 represents stereo L/R or Dolby Surround encoded Lt/Rt.

Audio Sampling Rates

32, 44.1 or 48 k samples/second. User-selectable sample rate conversion for independent input and encoded sampling rates.

Frequency Response

Lower limit: <20 Hz. Upper limit varies with data rate, sample rate, and channel mode. Tolerance ±0.25 dB.

Distortion

Less than 0.1% at 1 kHz. Less than 0.2%, 20 Hz–algorithm upper limit.

Dynamic Range

Greater than 100 dB.

Crosstalk (Analog Input)

Less than -100 dB @ 1 kHz.

Coding Delay

Minimum: <80 msec (varies in some operating modes).

Maximum: 200 msec.

User-specified or automatic from external TTL pulse.

Audio Inputs

Analog In - Ch A, B: Balanced input, 3-pin XLR female, selectable 10 k or 600 Ω via internal jumper. Peak level adjustable from +4 dBu to +24 dBu (0 dBu = 0.775 Vrms).

CMRR >55 dB, 50 Hz–10 kHz.

Digital (Enc In): BNC female with loop-through, unbalanced, signal levels per AES-3ID-1995/SMPTE 276M, external 75 Ω termination required.

Reference (Ref In): BNC female with loop-through, unbalanced, signal levels per AES-3ID-1995/SMPTE 276M, external 75 Ω termination required.

Bypass In: BNC female, unbalanced, signal levels per AES-3ID-1995/SMPTE 276M specifications.

Digital Audio Outputs

Enc Out Main: BNC female, unbalanced, signal levels per AES-3ID-1995/SMPTE 276M specifications.

Enc Out Switched: BNC female, unbalanced, signal levels per AES-3ID-1995/SMPTE 276M specifications.

Time Code Input

LTC In: 3-pin XLR female, balanced, 10 k Ω.

VITC In: BNC female with loop-through, unbalanced, 75 Ω.

Serial Remote Control Input

Remote (Front): RS-232, 8-pin female mini-DIN connector.

Remote (Rear): RS-485, 9-pin female D connector, SMPTE 207M electrical/mechanical compatible.

Protocol: Subset of SMPTE RP113 (Esbus).

Auxiliary Data Input

Aux Data: RS-232, 9-pin female D connector.

Delay Control Input

TTL Delay: BNC female, 0-5 V TTL level.

General Purpose I/O

In: 9-pin female D connector, 0-5 V TTL level.

Out: 9-pin female D connector, 0-5 V TTL level.

Test Tone Generator

1 kHz (nominal) tone at -18 dB, -20 dB, or -∞ dB (digital silence) referenced to digital full scale.

Front-Panel Controls and Display

2- x 16-character LCD display with control keys. LED status indicators.

Power Requirements

90–264 VAC, 50–60 Hz, Auto Sensing, 15 W max.

Dimensions and Weight

44 mm x 483 mm x 298 mm (1.75" x 19" x 11.75").

Net: 4.8 kg (10.5 lbs).

Shipping: 7.3 kg (16 lbs).

Operating Conditions

5–45° C, Natural Convection Cooling.

0–90% Relative Humidity (non-condensing).

Regulatory Notices

USA: This unit complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

Europe: This product complies with the requirements of Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC and carries the CE marking accordingly.

Warranty

1-year limited, parts and labor.

DISCLAIMER OF WARRANTIES:

Equipment manufactured by Dolby Laboratories is warranted against defects in materials and workmanship for a period of one year from the date of purchase. There are no other express or implied warranties and no warranty of merchantability or fitness for a particular purpose.

LIMITATION OF LIABILITY: It is understood and agreed that Dolby Laboratories' liability whether in contract, in tort, under any warranty, in negligence or otherwise shall not exceed the cost of repair or replacement of the defective components and under no circumstances shall Dolby Laboratories be liable for incidental, special, direct, indirect or consequential damages (including but not limited to damage to software or recorded audio or visual material), or loss of use, revenue or profit even if Dolby Laboratories or its agents have been advised, orally or in writing, of the possibility of such damages.

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