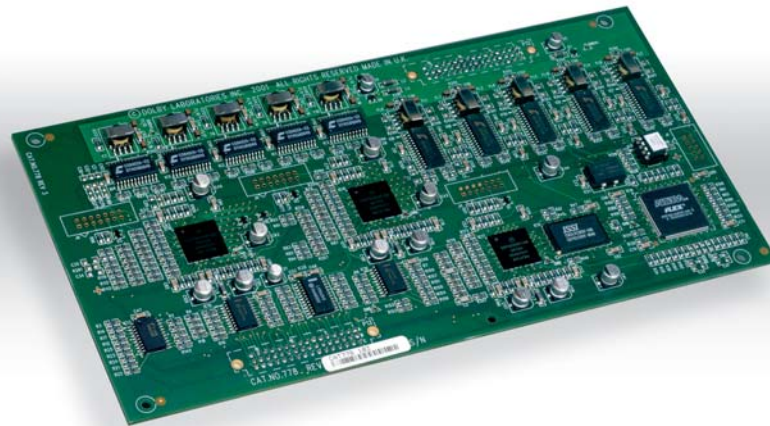




Dolby Cat. No. 778 Digital Input/Output Card



The Dolby® Cat. No. 778 adds digital audio input and output capabilities to the Dolby CP650 cinema processor, making it particularly appropriate for studio applications requiring digital throughput. It also provides Dolby Digital Surround EX™ decoding, and decodes Dolby Digital bitstreams from non-film sources such as DVDs, Digital Video Recorders, digital cinema servers, and digital television broadcasts.

When installed in a CP650 with version 2.2 or newer software, the Cat. No. 778 also provides Unity Gain and Noise Floor Optimization features. Unity Gain maintains the original level

of digital signals as they pass through the CP650, while Noise Floor Optimization maximizes each channel's headroom based on its B-chain settings to provide the lowest possible noise floor within the CP650.

Once the Cat. No. 778 has been installed, its digital inputs and outputs are accessed via the Option Card I/O 25-pin female D-connector on the CP650's rear panel.

Note: Installation of the Cat. No. 778 automatically disables the CP650's analog outputs.

Dolby Cat. No. 778 Digital Input/Output Card

Digital Audio Coding

16-, 20-, and 24-bit PCM, 44.1 to 48 kHz

Digital Audio Inputs

4 × AES/EBU, balanced (up to eight channels)

Input impedance: 110Ω

Digital Audio Outputs

5 × AES/EBU, balanced (up to ten channels)

Output impedance: 110Ω

Channel Pair Designations

AES 1 (L/R) Left/Right

AES 2 (C/LFE) Center/Low-Frequency Effects

AES 3 (Ls/Rs) Left surround/Right surround

AES 4 (Bsl/Bsr) Back surround left/Back surround right

AES 5 (Le/Re) Left extra/Right extra

Synchronization

The system synchronizes to the first digital input pair (L/R);
other digital inputs must be phase- and sample-synchronous

Additional Playback Formats

With the Cat. No. 778 installed, the CP650 supports
the following additional digital playback formats:

80 Master Digital (auto-switching)

Dolby Digital (non-film)

PCM two-channel: L, R discrete or Dolby Pro Logic® decoding

81 Master Digital with Surround EX decoding

85 Five-screen-channel

PCM In: L/R, C/LFE, Ls/Rs, Bsl/Bsr (Le/Re input on Bsl/Bsr)

PCM Out: L/R, C/LFE, Ls/Rs, Bsl/Bsr (copy of Ls/Rs), Le/Re

86 Five-screen-channel with Surround EX decoding

PCM In: L/R, C/LFE, Ls/Rs, Bsl/Bsr (Le/Re input on Bsl/Bsr)

PCM Out: L/R, C/LFE, Ls/Rs, Bsl/Bsr, Le/Re

88 Six-channel

PCM In: L/R, C/LFE, Ls/Rs

PCM Out: L/R, C/LFE, Ls/Rs

89 Six-channel with Surround EX decoding

PCM In: L/R, C/LFE, Ls/Rs

PCM Out: L/R, C/LFE, Ls/Rs, Bsl/Bsr

90 Seven-channel

PCM In: L/R, C/LFE, Ls/Rs, Bs

PCM Out: L/R, C/LFE, Ls/Rs, Bsl/Bsr

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, or of noninfringement of third-party rights (including, but not limited to, copyright and patent rights).

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