

Panasonic

AV Decoder LSI for DVD Player/DVD Recorder MN6775511

Overview

MN6775511 is fully compatible with DVD-Video, DVD Audio and DVD-Video Recording. Features for the MN6775511 include: MPEG Video, JPEG decode and Dolby Digital, MPEG1 (Layer2/Layer3), MPEG2 (Layer2/Layer3), MPEG Multi Channel, DTS, Linear PCM (DVD Video), Linear PCM (DVD Audio), Meridian Lossless Packing (MLP), and Windows Media Audio (WMA) decode.

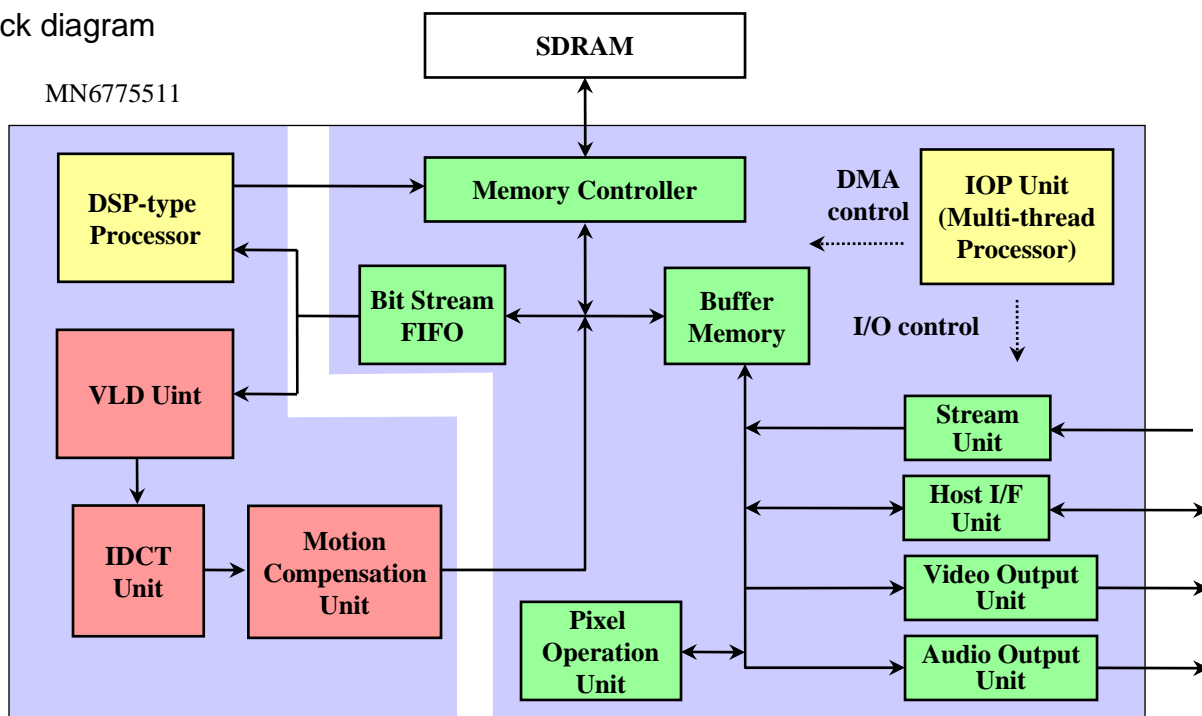
Features

- DVD Video, DVD Audio, DVD Video Recording
- Descrambler (CSS, CPPM, CPRM)
- Audio Watermark detect
- Adaptive IP conversion
- WMA decode
- JPEG decode
- ITU-R656 input

Applications

DVD Players / DVD Recorders

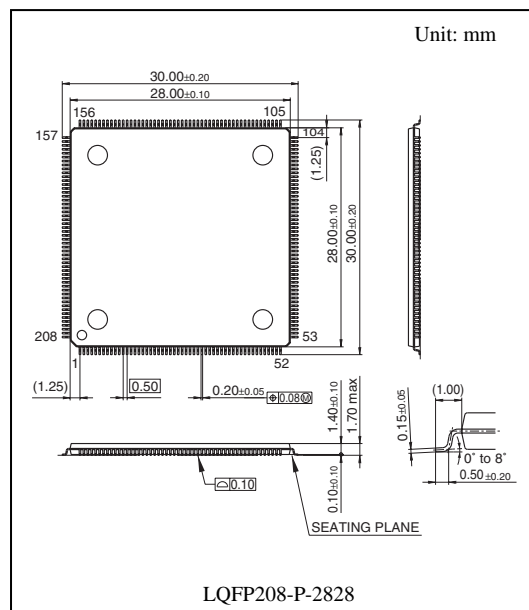
Block diagram



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Semiconductor Company, Matsushita Electric Industrial Co., Ltd.



■ Specifications

MN6775511

Input stream	MPEG1 system stream MPEG2 program stream
Video decode	MPEG1 MPEG2 (MP@ML, SP@SL, MP@LL)
Still picture decode	Sub picture unit (DVD) Overlay Graphics and Text (SVCD) Audio Still Video (DVD Audio) JPEG (Exchangeable image file format)
Audio decode	Dolby Digital MPEG1&2 Layer2/Layer3 (MP3) DTS DVD Video: Linear PCM DVD Audio: Linear PCM/MLP WMA CDDA
Copy protection	Descrambler (CSS, CPPM, CPRM) Audio watermark detect Macrovision Rev. 7.1.L1 Macrovision (Progressive) Rev. 1.03 CGMS WSS
Video output	Five 54 MHz 10-bit Video DACs NTSC/PAL/PAL60 video encode Adaptive IP conversion Progressive Scan Y/Cb/Cr (Interlace/Progressive) Y/C/Composite (Interlace) RGB ITU-R656 BTA T-1004
Audio output	PCMoutput: 6-ch. + Mix 2-ch. IEC60958/61937 Virtual Sonic Bass Redirection Volume (Channel balance, level)
Trick play	Frame still/Field still I-picture Play IP-picture Play (with Audio) Slow forward/Slow reverse JOG
Other functions	ITU-R656 input/Overlay Video noise reduction: Block NR / Mosquito NR / three-dimension NR Two OSD planes Scaling (Main picture, Sub picture, JPEG, ITU-R656 input) Thumbnail
Power consumption	3.3 V (I/O) / 1.5 V (Core)
Package	208 pin LQFP
Process	0.15 μ m 5-layer metal CMOS

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DTS is a registered trademark of Digital Theater System inc.