STm5589

DVD Audio and Video Decoder

Features

- ● **OMEGA Super integration**
- ● **80 MHz 32-bit ST20 processor**
  - ○ Software for JPEG decoding
- ● **Drive**
  - ○ RAM less DVD optical interface when combined with STm6316
  - ○ Glueless interface to serial, parallel and ATAPI front-end interfaces
  - ○ Full support of DVD-Video, SVCD, VCD, CD Audio, DVD-RW (CPRM)
- ● **Video decoder and graphics**
  - ○ MPEG-2 and MPEG-1 video decoder
  - ○ 8-bit OSD with anti-flicker and anti-flutter filters
  - ○ DVD "CSS" decrypting
  - ○ DVD subpicture decoder
  - ○ PAL/NTSC/SECAM digital encoder
  - ○ 6x video DACs
  - ○ P525 progressive scan
  - ○ PAL/NTSC/SECAM digital encoder
- ● **Audio recorder**
  - ○ Dolby Digital^{TM} audio decoder with 5.1 channel outputs
  - ○ MPEG multichannel audio decoder with 5.1 channel outputs
  - ○ Dolby Virtual Surround
  - ○ SRS® TruSurround®
  - ○ MP3 audio decoder
  - ○ WMA® audio decode
- ● **Low-cost 208 pin PQFP package**

Description

The STm5589 is a highly integrated DVD audio and video decoder for fourth generation DVD applications. It offer the best overall solutions thanks to STMicroelectronics system-on-chip technology.

The low-cost STm5589 optimizes the system bill of material via a unified memory architecture and when combined with the STm6316. Furthermore, it offers WMA® decode capability.

The STm5589 key features and high level of integration in a single PQFP208 package make it ideally suited for low-cost, high volume DVD player applications.
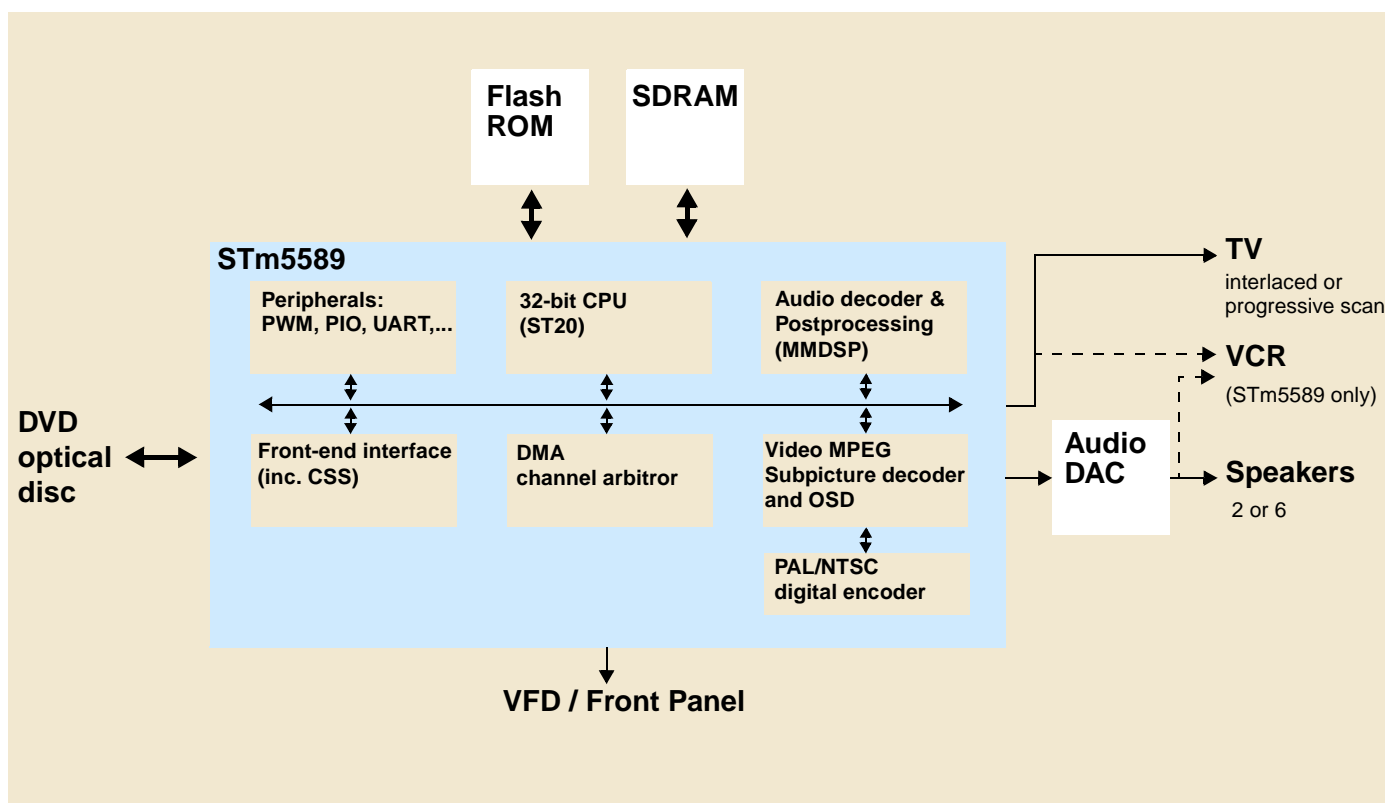
Applications

Fourth generation DVD players

Ordering Information

Package	208 pin PQFP
Ordering code	STm5589

STm5589 system on chip with Omega Super integration