



SPCA1628A

Digital DSC/DV Controller

PRODUCT OVERVIEW

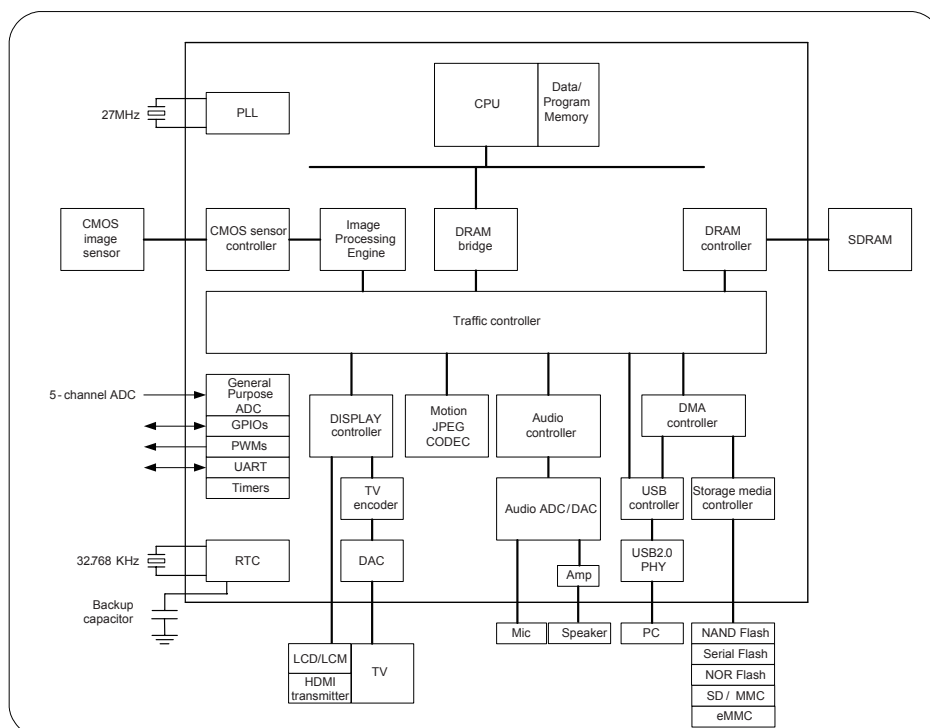
The SPCA1628A is a low cost digital still camera/camcorder SoC, which features with a full set of key modules required in a digital still camera. The SoC has embedded with iCatch's high quality image processing engine, high-speed JPEG CODEC, face detection hardware engine and a wide range of peripheral interfaces, making a low cost DSC easy to be realized.

In low cost DV application, SPCA1628A is capable of 720p HD video recording. SPCA1628A is also capable output 720p video via an external HDMI transmitter.

FEATURES

- DSC image capturing from CMOS sensors up to 12M pixels
- Support MJPEG video recording up to 720p@30fps
- Supports SDRAM with the density of 16Mb to 512Mb, up to 133Mhz
- Support serial flash, MMC, SD and SLC
- Up to 27 x GPIO
- HDTV 720p output through external HDMI transmitter
- USB 2.0 Full/High Speed device function with built-in USB2.0 transceiver
- Supports USB Mass Storage Class / Audio Class / Video Class / Still Image Class
- Hardware Face detect and track technology
- Support both font-based OSD and graphics-based OSD
- High color fidelity images through efficient image processing engines
- Support lens shading correction
- Support special image effects such as negative, Solaris, binaries, sepia, black/white
- LQFP 176L package in 20x20x1.4mm

BLOCK DIAGRAM



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