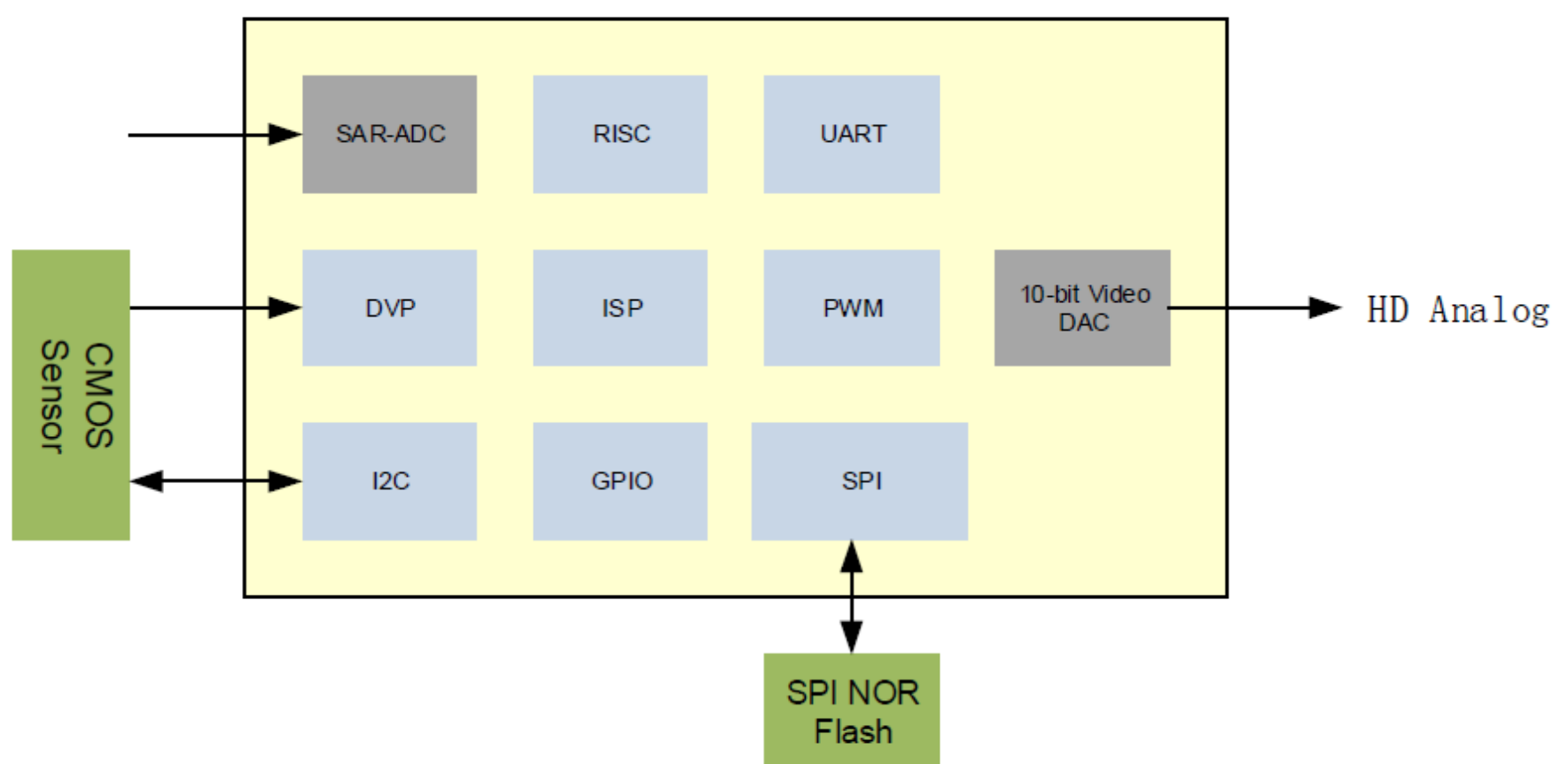# FH8536H: Good Lowlight performance & cost-effective 2M ISP for CCTV

FH8536H is a High Performance ISP for CIS (CMOS Image Sensor) and targeted on professional surveillance CCTV camera with internal HD Analog Tx. FH8536H supports 1M/1.3M/2M/3M Pixel CIS BAYER & RGBIR 4X4 pattern input. Its analog video outputs support standard CVBS/960H/ 1280H, 720P/1080P/3M HD Analog standard. The high performance 3D De-noise module achieves better low light performance. It also has a STE module which can support Lens Distortion Correction.

规格:

FH8536H				
CIS Input	Support 3M/2M/1.3M/ 1.0M CMOS sensor	Video Output	Analog Output: CVBS（1280H）	
	RGB / RGBIR 4X4; Data Width 10bit;		HD Analog : 3M, 1080P, 720P	
	Clock edge, Frame polarity & Line polarity are configurable			
ISP Function	High performance CFA	Resolution	CVBS：800TVL above HD Analog : 1200TVL above (1080P)	
	High performance 3D de-noise	External Interface	I2C	
	2D and Y/C de-noise		SPI	
	Auto AE/AWB		UART	
	STE (LDC)		GPIO	
	LSC		SADC	
	DPC		PWM	
	PM & MD	Others	Working Temperature：-20℃ ~ 70℃	
			Typical Power Consumption: 380mW （1080P30）	
			Power Supply: Analog (3.3V);IO(3.3V or 1.8V);Digital(1.1V)	
OSD Function	Customized TOSD/GOSD		Package：QFN52 (6*6)	

Diagram：

Typical Reference Design: