**FH8556: High Performance 4K ISP for CCTV**

FH8556 is a High Performance ISP for CIS (CMOS Image Sensor) and targeted on professional surveillance CCTV camera with internal HDcctv Tx. FH8550M supports 4K 4-lane CIS MIPI interface. Its analog video outputs support standard CVBS/960H/1280H, and 720P/1080P/3M/4M/8M HDcctv standard. FH8556 has high performance 3D De-noise, 2-frame line-by-line WDR and Dynamic Pixel Correction modules. It also has TOSD/GOSD, PM, MD and AF statistics modules along with SADC and PWM interfaces.

### FH8556

**CIS Input**
- Support 8M CMOS sensor
- RGB, 4-lane MIPI

**ISP Function**
- High performance CFA
- High performance 3D de-noise
- 2D and 1’C de-noise
- Auto AE/AWB/AF
- LUC
- DPC
- PM & MD
- 2-frame line-by-line WDR

**Video Output**
- Analog Output: CVBS (1280H)
- HDcctv: 8M@15fps, 4M@25/30fps

**Resolution**
- CVBS: 800TVL above
- HDcctv: 2000TVL above (8M)

**External Interface**
- SPI
- UART
- GFP
- SADC
- PWM

**Others**
- Working Temperature: -20°C ~ 70°C
- Typical Power Consumption: 1000mW
- Operating Voltage: 1.2V/1.8V/3.3V
- Package: QFN68 (8*8)

**Typical Reference Design:**

![Diagram](image-url)