



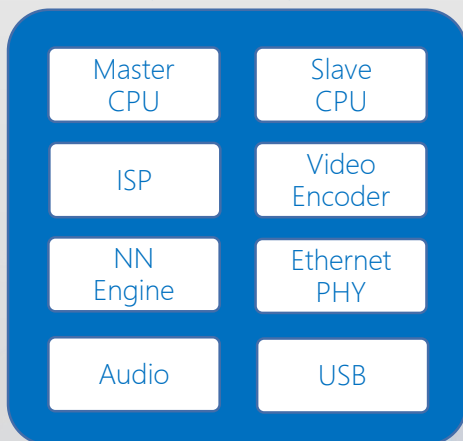
| Application

| Smart Home Security Camera

| Features

- Deep learning based smart engine
- External DDR interface, up to 512MB
- Support three microphone inputs
- Support up to 5MP

| Block Diagram



| Specifications

CPU	Master CPU: up to 996MHz Slave CPU: up to 498MHz
AI Engine	0.5TOPS computation power Human/Car detection Face detection/recognition (optional)
CIS	Support up to 5MP inputs 4-lane MIPI, RGB bayer
ISP	2-frame WDR, local tone mapping 2DNR, 3DNR AE/AWB/AF
Video Encoder	H.264/H.265 video encoder Support up to 5MP Support multi-streams: videox2+JPEGx1 JPEG: up to 5MP@5fps
Audio	Three ADC & single DAC Support 8K~48KHz sampling rate Support echo cancellation
Ethernet	Internal 10M/100M Ethernet PHY
Peripherals	3xI2C, 3xSPI, 3xUART, 2xSDIO 1xUSB2.0 4xSADC, 12xPWM
Memory	External DDR interface, up to 512MB
Package	BGA, 12mmx13.3mm

