

video processor



FEATURES

• 1.2 GHz XBurst1 CPU with 64KB+128KB cache

successful applications in a variety of video markets and

- SIMD128 ISA
- Professional ISP, extremely low light enhanced
- Advanced 2D/3D de-noise, 3A, DRC

endorsed by many famous brands.

- Maximum 5M(2560*1920)@25fps H.265/H.264 video encoder, JPEG encoder
- 1Gb(128MB) DDR inside
- AES/RSA/SHA/TRANG
- Rich interfaces, I2C/SPI/USB/SDIO/DMIC/ADC
- Internal audio codec, supports one analog microphone input and speaker ouput
- 350mW power consumption at typical application
- BGA85 5mm*6mm package
- Typical Al algorithms available: smart tracking, person detection, face detection...
- Mature solution and reference design ready for: medical/ medical beauty equipment, micro camera, web camera...

BENEFITS

- **Ultra-small package** Ultra-small video processing chip.
- Professional video quality starlight vision, low bitrate live video stream.
- Low power consumption 22nm process, long term on-chip consumption optimization.
- Lite-Al capability lite neural network algorithms powered by SIMD128 ISA.

APPLICATION/SOLUTIONS

- Medical/medical beauty endoscopes, visual ear picks
- Micro camera industrial cameras, electronics Microscope
- Web camera USB cameras, video conferencing cameras

CHIP IMAGE

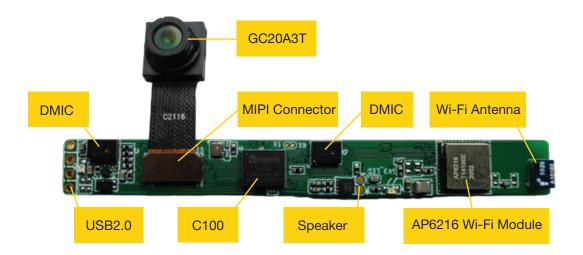
Please refer to the datasheet.

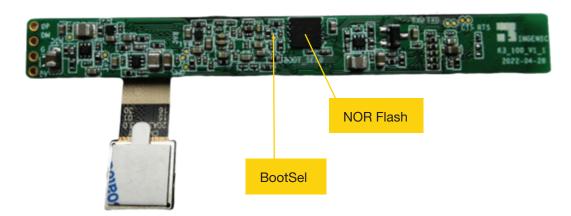
SYSTEMS DIAGRAM

Please see hardware reference design.



EVALUATION BOARD IMAGE

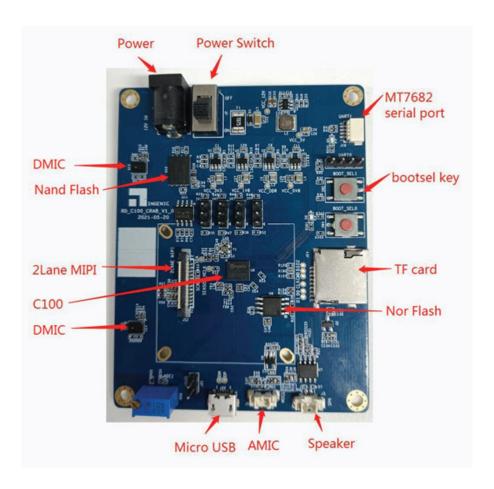




C100_K3_Board



EVALUATION BOARD IMAGE



C100_CRAB_Board

BLOCK DIAGRAM

