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Product Specifications of the CE150 SoC

- Specifications of CE150
The CE150 is an image signal processor dedicated for mobile phone cameras supporting CMOS sensor up to 16M pixels.
- Sensor interfaces
 - Class 1 and Class 2 SMIA CCP2 (Note 1)
 - 4 lanes of MIPI® CSI-2 serial interfaces (Note 2)
- Image processing functions
 - Auto focus, auto exposure, white balance
 - RGB pixel interpolation, YUV conversion
 - Chroma suppression, tone correction, gamma correction
 - Noise reduction
 - Resize, rotation, mirroring
 - High-quality digital zoom processing
- Optional functions
 - Face detection
 - Auto scene detection control
 - Wide dynamic range correction
- Output data formats
 - YUV422, YUV420, JPEG compressed data, RAW (binary)
- Output interfaces
 - 8/16-bit parallel interface
 - 2 lanes of MIPI® CSI-2 serial interfaces (Note 2)
- JPEG compression
 - Input formats: YUV 422, grayscale
 - Output formats: JPEG stream YUV422, YUV420, grayscale

(Note 1) "SMIA (Standard Mobile Imaging Architecture)" defines a standard interface for cell phones.

(Note 2) "MIPI CSI-2 (Mobile Industry Processor Interface Camera Serial Interface 2)" defines a standard high-speed serial interface for cell phones.