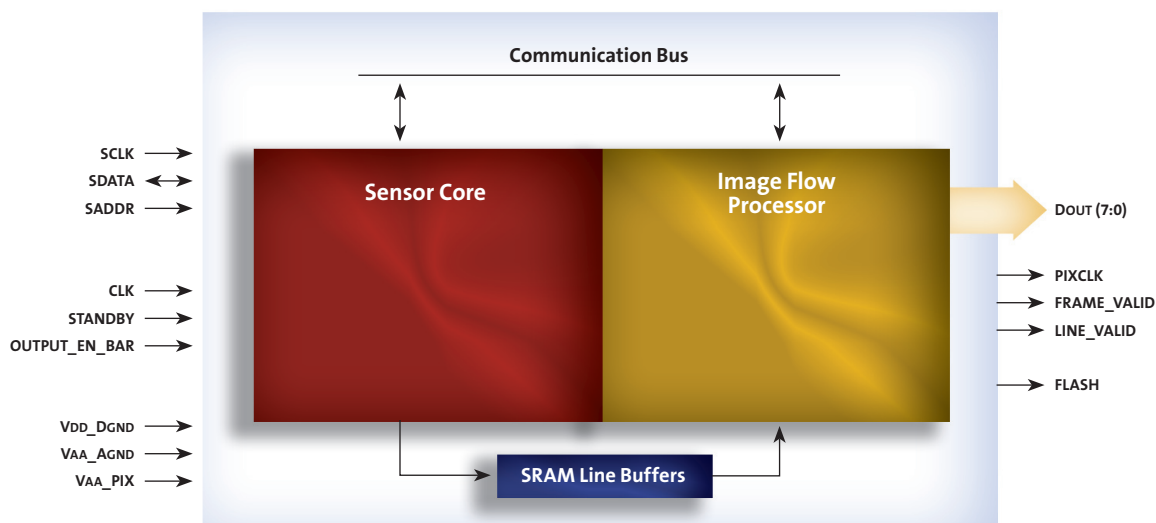


Specifications

• Pixel Size:	5.6μm x 5.6μm	• ADC:	10-bit, on-chip
• Array Format (Active):	640H x 480V	• Data Rate:	12–13.5 megapixels per second (master clock, 24–27 MHz)
• Imaging Area:	3.584mm x 2.688mm	• Responsivity:	1.9 V/lux-sec (550nm)
• Color Filter Array:	RGB Bayer color filters	• Data Output Formats:	ITU_R BT.656 (YCbCr), YUV 4:2:2 (progressive), 656RGB, 555RGB, and 444RGB
• Optical Format:	1/4 inch (4:3)	• Dynamic Range:	60dB
• Frame Rates:	30 fps @ 640H x 480V	• Maximum Analog Gain:	16
• Scan Mode:	Progressive	• Supply Voltage:	2.8V ±0.25V
• Shutter:	Electronic rolling shutter (ERS)	• Power Consumption:	<120mW (@ 30 fps)
• Window Size:	Programmable to VGA, QVGA, CIF, and QCIF	• Operating Temp. Range:	–40°C to +85°C
• Automotive Functions:	Exposure, white balance, black level offset correction, flicker avoidance, color saturation, defect identification and correction, frame rate, and back light compensation	• Storage Temp. Range:	–40°C to +125°C
• Programmable Controls:	Gain, frame rate, ADC reference, left-right and top-bottom image reversal	• Package:	52-ball iBGA, die in reconstructed wafer form, automotive-qualified

Block Diagram



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