MityCAM-C8000

The MityCAM-C8000 couples an 8MP CMV8000 CMOS imaging sensor from CMOSIS with the processing technology in Critical Link's Altera Cyclone V SoC System on Module. The open architecture design allows you to load your algorithms directly into the hardware for advanced on-board processing.

MityCAM-C8000 System Features:

- 8MP High-Speed global shutter image sensor
- Tightly integrated FPGA and ARM for embedded vision applications
- Reduce project risk and cost, while accelerating development

Multiple Production Ready Configurations:

- Fully-enclosed compact camera
- Complete 3-board set solution
- Partial board set solution for customers electing to customize sensor or I/O boards

	CMV-8000
Active Pixels	3360(H) X 2496(V)
Pixel Size	5.5 um x 5.5 um
Frame Rate	95 fps
Noise (@104 fps)	8.6 e^-
Dark current e^-/pixel/sec @ 25C	41.2 e^-/S
Peak Quantum Efficiency	>58%
Dynamic Range	60 dB
Shutter Mode	Global Shutter
Chroma Options	Color or Mono

Critical Link • 6712 Brooklawn Parkway • Syracuse NY 13211 • 315.425.4045 • info@criticallink.com • www.criticallink.com

MityCAM Embedded Vision Platform

Production-Ready Hardware

- Standard C-mount lens

Sensor Card

SoC Processor Card

Interface Card (Multiple Options)

UI for sensor setup/ configuration and data acquisition.

- 8.0 MP CMOSIS Sensor
- 5.5 MP sCMOS Fairchild Imaging
- 2.1 MP sCMOS Fairchild Imaging

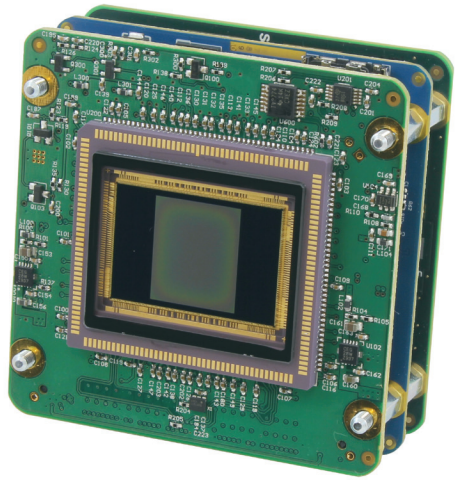
- On-board processing: dual Cortex-A9 ARM and FPGA fabric
- Machine Vision SDK

- USB 2.0
- CameraLink
- Gigabit Ethernet
- USB 3.0*
- SDI*

*Future offerings

MityCAM is Critical Link's family of highly configurable imaging and vision solutions. The platform is designed to be customizable with a variety of high-performance sensors, user programmable SoC featuring tightly integrated ARM and FPGA fabric, and multiple I/O options. Customers benefit from the platform's flexibility, with each building block tailorable to suit the application.

MityCAM products deliver robust on-board processing making them ideal for scientific imaging and vision applications involving high-throughput and advanced image processing.



Applications:

- Machine Vision
- Scientific Imaging
- Surveillance Imaging
- Metrology Imaging
- Low-Light Imaging
- Embedded Instrumentation
- Motion Control

For complete product information, visit www.criticallink.com/imaging

Rev 10/14

Critical Link • 6712 Brooklawn Parkway • Syracuse NY 13211 • 315.425.4045 • info@criticallink.com • www.criticallink.com