High Performance CCD Evaluation Kit

High Performance CCDs from Hamamatsu:
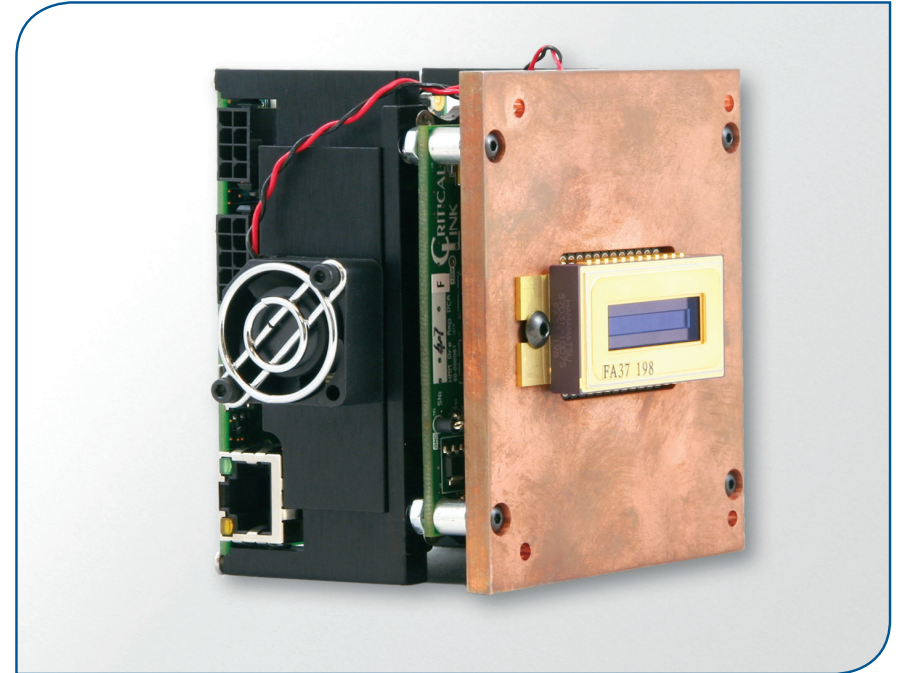
- ❍ S703x

- ❍ S1014x

- ❍ S997x

- ❍ Reduce Technical Risk

- ❍ Reduce Project Cost

The High Performance CCD Evaluation Kit by Critical Link is a complete hardware and software framework designed to accelerate the development of spectroscopy applications. The kit features a wide selection of sensors from Hamamatsu, and includes a MityDSP processing engine with both a DSP and an FPGA for algorithm development. A simple to use UI allows for quick evaluation of the Hamamatsu Sensor products. A total of 18 sensor variations are supported.

With sensor resolutions ranging from 512(H) x 58(V) to 2048(H) x 506(V), Critical Link offers an evaluation kit to fit your specific needs.

The Evaluation Kit includes:

- ❍ **Back Illuminated Sensor Options**
  - ❍ S7031 (6 Pixel Choices up to 1024 x 250)
  - ❍ S10141 (6 Pixel Choices up to 2048 x 506)
- ❍ **Front Illuminated Sensor Options**
  - ❍ S9971 (4 Pixel Choices up to 1024 x 252)
  - ❍ S9973 (2 Pixel Choices 1024 x 124 or 1024 x 252)
- ❍ **On-board processing** – FPGA and DSP
- ❍ **Integrated TE Cooling**
- ❍ **Software** – MityViewer DK software for setup, acquisition, viewing and data analysis

Applications:
- ❍ Raman Spectroscopy
- ❍ Portable Scientific Imaging
- ❍ Lower-light Imaging
- ❍ Semiconductor Inspection
- ❍ Industrial Inspection

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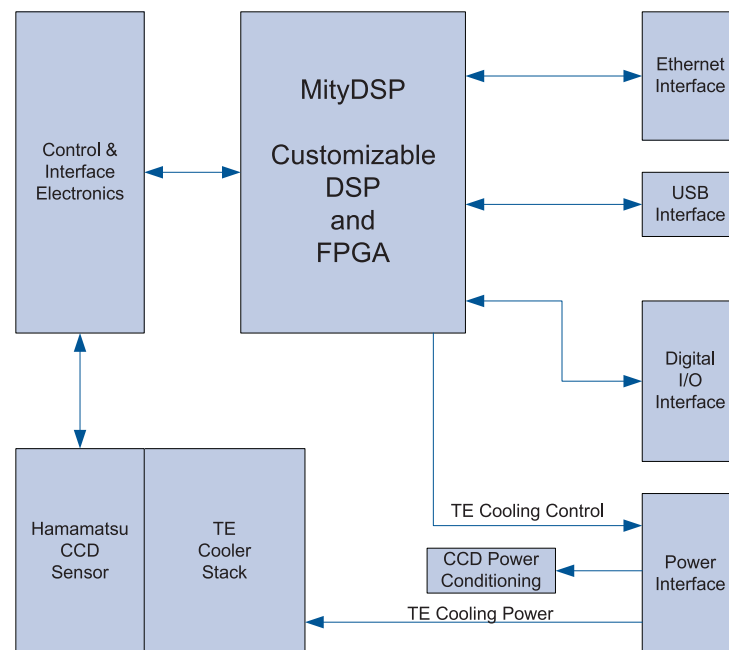
High Performance CCD Evaluation Kit

By utilizing standard USB 2.0 and 10/100 Ethernet interfaces product development time is decreased while ease of is increased. The Evaluation Kit features a dual board design with your selected sensor.

Each of the sixteen available evaluation kits integrates a thermoelectrically cooled high performance Charged-Coupled Devices (CCD) sensor suitable for scientific instrumentation. Hamamatsu sensors offer a peak

Quantum Efficiency of up to 90%, depending on the sensor selected. Coupled with Critical Link's MityDSP processing engine, algorithm evaluation on a Hamamatsu sensor is fast and simple

Don't limit your sensor choices. Instead choose the Critical Link High Performance CCD Evaluation Kit and expand your product development possibilities while decreasing your time to market.

High Performance CCD Evaluation Kit

Sensor	Max Active Pixels		Pixel Size	Peak QE
	Horizontal	Vertical		
S7031	1024	250	24um x 24um	90%
S10141	2048	506	12um x 12um	90%
S9971	1024	252	24um x 24um	>35%
S9973	1024	252	24um x 24um	>45%