Designed to replace obsolete microcontroller units (MCUs), Kondo created the KEIm Embedded System on Module (SoM) to extend the life cycle of embedded electronic sub-systems. The original equipment manufacturers (OEMs) can get to market 6-12 months faster by using Kondo’s pre-built hardware and software solution.

Leveraging MAX® 10 FPGAs and the Nios® II 32 bit processor for quick design changes, Kondo also customizes solutions to meet your exact application needs.

Figure 1. KEIm-08SOM Board

Kondo Electronics Industry Co., Ltd. is an independent electronics design and EMS company based in Osaka and Yokohama, Japan providing custom solutions from product specification plan to design, assembly, and production packing.
Customer Benefits

- Replaces obsolete MCUs without any FPGA knowledge
- Ultra small SoM size. Only a 90-pin connector needed in your system
- Wide operating temperature range for tough industrial products environments
- Development kit and software development kit (SDK) are available

Technical Details

- 40 mm x 30 mm board size
- 3.3 volt supply voltage
- MAX 10 FPGA (10M08SAU169xxG)
- Nios II 32 bit CPU, 80 MHz, 4 KB I-cache, 2 KB D-cache
- Various CPU peripherals
- 8MB SDRAM and 4MB flash memory

Ordering Details

- SoM p/n: KEIm-08SOM
- Pricing – Contact Kondo Electronics
- Order here: http://www.kd-group.co.jp/info/contents/board_solution.html#p1

Software Details

- SDK is available upon request

Contact Details

- Business and technical contact: keim-support@kd-group.co.jp