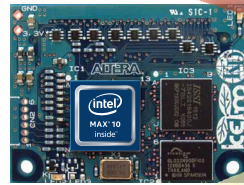


It's possible to make mass production even small lot that custom MCU platform which installed Intel® MAX® 10 FPGA.



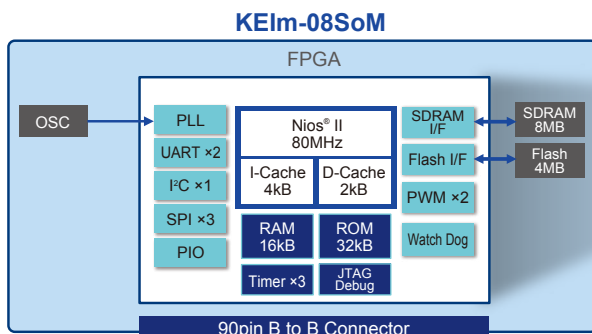
< KEIm-08 Feature >

- To be compact and reduce weight products.
- To develop products shorten the delivery time by the module.
- It will clear up any uncertainties for discontinued.
- It's commonly possible to use it from trial production to mass production.
- Possible to customize

< Introduction cases of our clients >

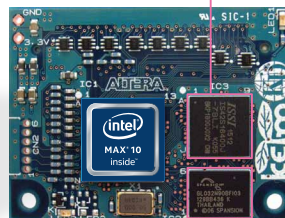
- Hardware acceleration
- Digital signal processing
- Front end controller of sensing system
- Network node of communication processing system
- Custom MCU platform

CPU + Peripheral IP + Memory Embedded platform

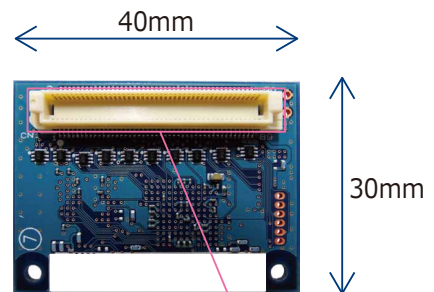


< Design sample >

SDRAM 8MByte



Flash 4MByte



Board to board Connector

Possible to integrate by one connector of 90 pins
At most 66 pins user I/O

We mainly organize to work trust development business in Japan.
We support general development business that used by KEIm.

KEIm-08 series

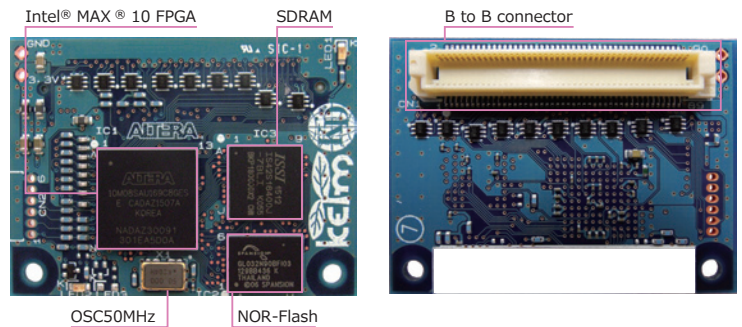
▼ KEIm-08 SoM Basic specifications

FPGA	10M08SCU169I7G
RAM	SDRAM 8MByte
ROM	NOR-Flash 4MByte
Clock	50MHz Cristal oscillator
Connector	FX8-90P-SV1 (HIROSE) 90pin General purpose I/O port at most 66 pins
Debug I/F	JTAG (Be connected to the connector)
Supply voltage	+3.3V±5%
Current consumption	About 170mA (Typ.)
Operating temperature	-20°C~60°C (However without condensation)
Dimensions	40mm x 30mm

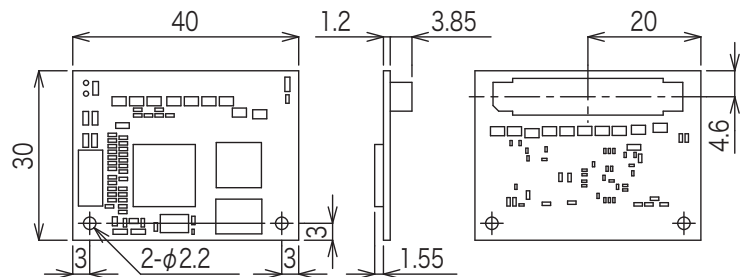
▼ Design sample

CPU core	Nios® II Gen2 Processor 80MHz Instruction cash:4KByte Data cash:2KByte
Peripheral	UART, I2C, SPI, PWM, GPIO, etc.

▼ Board appearance



▼ Board size

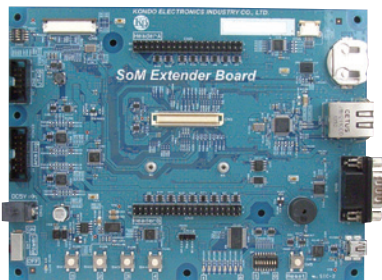


▼ Development environment

Development software	Intel® Quartus® Prime Development software
Sample software	Now showing on Web site

Starter kit

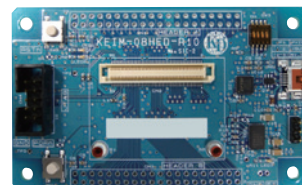
▼ KEIm-08 SoM Development kit



(Package)
AC adapter
USB cable
Screw spacer

Supply voltage	+5V±5%(AC adapter)
Dimensions	130mm × 170mm
Basic specification	JTAG connector, RS232C, USB serial, Ethernet, EEPROM, ADC, DAC, RTC, Buzzer, etc.

▼ KEIm-08 Header board



(Package)
USB cable
Screw spacer

Supply voltage	+5V±5%(USB bus power or pin header)
Dimensions	90mm x 55mm
Basic specification	JTAG connector, USB serial, Pin header, Push switch, Dip switch, LED, etc.

↓ Manual, Circuit diagram, Parts list, Sample software are able to download by below site.
<http://www.kd-group.co.jp/info/contents/product.html>