

MEGREZ EVALUATION BOARD

For Intel® Atom™ Processor & Intel® EP80579 Integrated Processor

Megrez is the first development board supporting both Intel® Atom™ processor and Intel® EP80579 Integrated Processor based modules providing maximum flexibility and a wide range of interfaces available onboard or through connectors. This development board is designed to reduce customers' application time-to-market, offering a wide range of peripherals, large memory size, LCD display and innovative modular construction, which makes it the ideal tool for development of computing applications using Windows XP and/or Linux operating systems.

The bill of materials of the baseboard and modules are based on Silica's comprehensive linecard using devices from STMicroelectronics and Texas Instruments.



Megrez1

Key Benefits

- Supports both Intel® Atom™ & Intel EP80579 Integrated Processor
- Zero effort Windows & Linux evaluation
- No JTAG needed
- Micro-ATX form factor (230 x 190 mm)
- All interfaces provided by the CPU modules are available onboard or through connectors
- Included design guides minimising the development time of custom interfaces
- Available customer training and hardware design service for custom application

Kit Contents

- LCD display (cable included)
- PCI-Express 1X graphic adapter
- Power supply (12 V)
- Manual & quick start guide
- Peripheral implementation design guide
- USB pendrive containing Windows and Linux demo images
- CD containing drivers, BSP and PDF references
- Silica Linecard paperwork



Megrez2

Processor Features

The board can accept a single Mirach (Intel® Atom™ processor based up to 1.6 GHz) or Mizar (Intel® EP80579 Integrated Processor based up to 1.2 GHz) module.

Mirach (Intel® Atom™ processor)

- 1 x IRDA transceiver
- 1 x SDIO/MMC connector
- 1 x Audio connector
- 1 x DVI connector
- 1 x LVDS connector
- 1 x IDE connector
- 1 x UART connector
- 8 x USB 2.0 connectors (one client)
- 1 x 10/100/1000 Ethernet connector
- 12 x GPIO
- 1 x LPC connector
- 1 x PCI-E 1x connector

Mizar (Intel® EP80579 Integrated Processor)

- 2 x CAN bus connectors
- 3 x 10/100/1000 ethernet connectors
- 1 x IEEE1588 interface
- 2 x SATA connectors
- 1 x SSP interface
- 1 x LEB interface
- 3 x TDM interfaces
- 1 x SPI interface
- 1 x PCI-E 8x connector
- 2 x UART connector
- 2 x USB connector
- 1 x SMBus interface
- 1 x LPC interface
- 8 x GPIO

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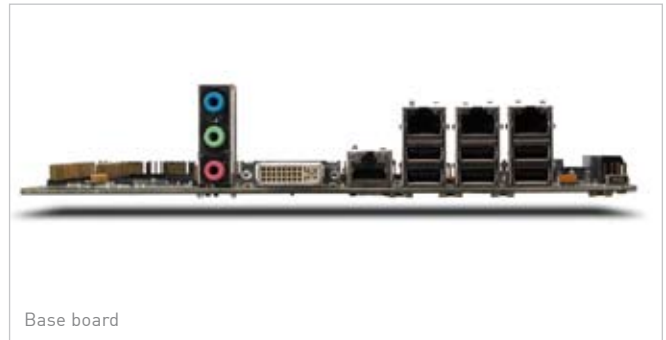
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Physical Features

- 0...+60 °C operational temperature range
- -10...+85 °C storage temperature range
- RoHS compliant and Lead-free production
- Micro-ATX, 230 x 190 mm

OS Support

Megrez and Mirach/Mizar modules support all major x86 operating systems (DOS, Microsoft Windows including Vista, Linux and its major distributions such as Ubuntu, Fedora, Debian, OpenSUSE, Gentoo and derivatives).



Order details	Resale price*
Megrez1 (base board with Mizar module on board)	1.250 €
Megrez2 (base board with Mirach3 module on board)	1.250 €
Mirach3 (module with Intel ATOM processor 1,1 GHz)	185 €
Mirach5 (module with Intel ATOM processor 1,6 GHz)	245 €
Mizar (module with Intel EP80579 Integrated Processor)	260 €

* Resale prices are subject to change.

Supporting Suppliers



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