

MIZAR

Intel® EP80579 Integrated Processor based module



Key Features

- Intel® EP80579 Integrated Processor family
- Up to 4 GB DDR2 RAM
- 3 x 10/100/1000 ethernet ports
- 2 x CAN BUS, UART, SATA
- 3 x TDM, SMBUS
- 1 x IEEE1588, PCI-E 8x, SSP, LEB, SPI, LPC
- 20 GPIO
- ECC controller integrated
- Operating temperature: -40...+85 °C

Key Applications

- Industrial solutions
- Security service module IPsec, VPN, Firewall, SSL IP forwarding/TCP proxy
- IP telephony services modules telephony-EC, vocoding and signaling SRTP, NAT/Prioritisation and secure voice HSS for T1/E1, FXS/FXO codecs Complete converged/IP PBX and gateway solutions

Key Benefits

- Four cores in a single chip (CPU, memory controller, I/O controller, quick assist accelerator)
- Powerful packet and security processing
- Highest throughput in a single chip
- Low cost solution
- No additional power suppliers needed, all the voltages are generated on board
- Smaller modular solution (110 x 85 mm)

- Configurable BIOS and HW
- X86 architecture compliant solution
- Windows XP, XP Embedded, Vista and Linux fully supported

Intel® EP80579 Integrated Processor a new generation of powerful processing core for security, communications, storage and embedded design.

Intel® EP80579 Integrated Processor from 600 MHz...1.2 GHz

Commercial configurations:

- Mizar-001 to Mizar-004:
600 MHz, 512 MB...4 GB DDR2 on board
- Mizar-005 to Mizar-008:
1066 MHz, 512 MB...4 GB DDR2 on board
- Mizar-009 to Mizar-012:
1200 MHz, 512 MB...4 GB DDR2 on board

Industrial configurations:

- Mizar-013 to Mizar-016:
1066 MHz, 512 MB...4 GB DDR2 on board

DRAM

DDR2 on board up to 4 GB

Buses & Interfaces

- 1 x PCI-Express 8X, 1 x LPC, 1 x SSP, 1 x LEB, 1 x IEEE1588
- 2 x CAN Bus, 3 x SMBus, 3 x TDM

Serial Ports

2 x UART

Ethernet

3 x 10/100/1000 Mbit/s ports

USB

2 x USB 2.0 Host

Mass Storage

2 x Serial ATA

Hardware Monitoring

- 1 x RTC
- 1 x Watchdog timer
- On board lithium battery

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GPIO

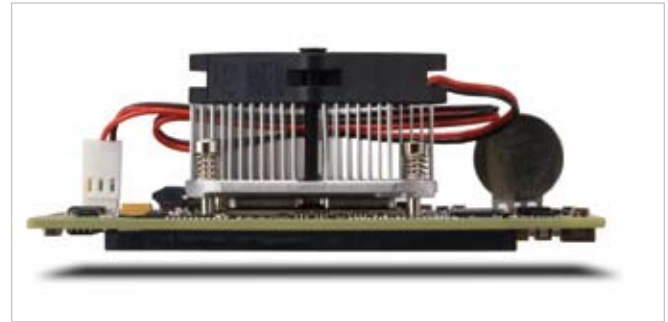
20 x channel GPIO

Power Supply

- +12 V
- Support S0, S3, S4, S5 power states

Physical Features

- Modular 110 mm x 85 mm
- -0...+70 °C temperature range (commercial)
- -40...+85 °C temperature range (industrial)



rev. 2.0

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.

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