

Key features

- Intel® EP80579 processor family
- Up to 4GByte DDR2 RAM
- 3x Gbit Ethernet (up to 1600Mbps with 10% of CPU using less than 25Watt)
- 2x CAN BUS, UART, SATA
- 3x TDM, SMBUS
- 1x IEEE1588, PCI ex 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/Prioritization 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
- Low power system: 1.5 to 25 Watt
- No additional power suppliers needed, all the voltages are generated on board
- Smaller Modular Solution (110x85 mm)
- Configurable BIOS and HW
- X86 architecture compliant solution
- Windows Xp, Xp embedded, Vista and Linux fully supported



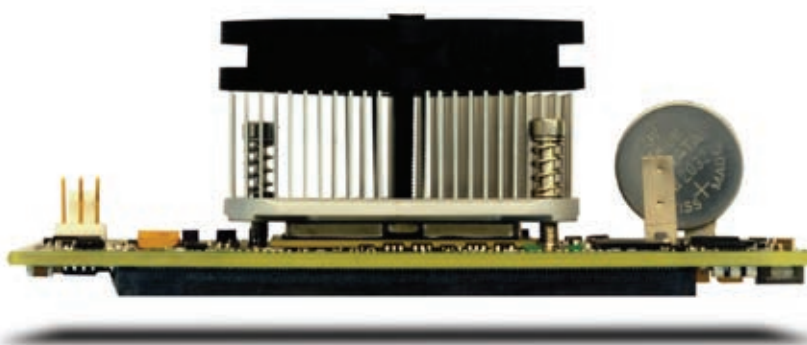
Mizar • Intel® EP80579 module

Intel EP80579 processor
a new generation of powerful
processing core for security,
communications, storage and
embedded design



Mizar

Processor	Intel® EP80579 from 600MHz to 1.2GHz Commercial configurations: Mizar-001 to Mizar-004: Intel® EP80579 600MHz, 512MB to 4GB DDR2 on board Mizar-005 to Mizar-008: Intel® EP80579 1066MHz, 512MB to 4GB DDR2 on board Mizar-009 to Mizar-012: Intel® EP80579 1200MHz, 512MB to 4GB DDR2 on board Industrial configurations: Mizar-013 to Mizar-016: Intel® EP80579 1066MHz, 512MB to 4GB DDR2 on board
DRAM	DDR2 on board up to 4GB
Bus & Interfaces	1x PCI-Express 8X, 1x LPC, 1x SSP, 1x LEB, 1x IEEE1588 2x CAN Bus, 3x SMBus, 3x TDM
Serial Ports	2x UART
Ethernet	3x 10/100/1000 Mbit/s ports
USB	2x USB 2.0 Host
Mass Storage	2x Serial ATA
Hardware Monitoring	1x RTC 1x Watchdog timer On board lithium battery
GPIO	20x channel GPIO, Linux driver
Power Supply	+12V Support S0, S3, S4, S5 power states
Physical Features	Modular 110 mm x 85 mm Fanless heatsink -0°C ... +70°C Temperature range (commercial) -40°C ... +85°C Temperature range (industrial)



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