

CA900-B COM Express Board

PROCESSOR

- Embedded Intel® Core™2 / Celeron® M processor
- 1066/800/667MHz FSB
- Intel® 45nm transistor technology
- Intel® Trusted Execution Technology (Intel® TXT)
- Intel® Virtualization Technology (Intel® VT) DMA
- Supports Data Bus Inversion (DBI)
- Supports Message Signaled Interrupt (MSI)
- Supports Intel® architecture with Intel® Wide Dynamic Execution
- Processor socket: Socket P 478-pin Micro FCPGA

CHIPSET

- Intel® chipset
 - Intel® GM45 Express chipset
 - Intel® ICH9M I/O Controller Hub

SYSTEM MEMORY

- Two 204-pin SODIMM sockets
- Supports 800/1066MHz DDR3 SDRAM
- Supports maximum of 8GB system memory
- 64-bit wide per channel
- 256Mb, 512Mb, 1Gb and 2Gb memory technologies
- Supports non-ECC x8 and x16 DIMMs
- Supports DDR3 On-Die Termination (ODT)
- Supports partial writes to memory using data mask signals (DM)

EXPANSION SLOTS

- Supports up to 1 PCI Express x16
- Supports up to 4 PCI Express x1 (PCIe 1.1)
- Supports up to 4 PCI (PCI 2.3)

GRAPHICS FEATURES

- Internal graphics features
 - Intel Gen 510 integrated graphics engine
 - 533MHz core render clock
 - Supports 3D, 2D and video capabilities, DX10 and OpenGL 2.1
- Integrated graphics interface
 - Analog CRT
 - Integrated 300MHz
 - Analog monitor supports up to QXGA
 - LVDS interface
 - Panel support up to UXGA (1600x1200)
 - 25MHz-112MHz single/dual channel up to 2x24bpp panel support

AUDIO FEATURES

- Supports AC97 on Azalia interface (depends on the CODEC used on the carrier board)

LAN FEATURES

- Intel 82567LM PCI Express Gigabit controller
- Integrated 10/100/1000 transceiver
- Supports Full Duplex flow control (IEEE 802.3x)
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Supports power down / link down power saving

SERIAL ATA INTERFACE

- Supports up to 4 Serial ATA interfaces which are compliant with SATA 1.0 specification
- Supports SATA-II devices with speed up to 3Gb/s

IDE INTERFACE

- Supports up to 2 IDE devices
- Supports up to Ultra ATA 100
- Bus Master IDE controller (PATA)

DAMAGE FREE INTELLIGENCE

- Monitors CPU temperature and overheat alarm
- Monitors CPU fan speed and failure alarm

CONNECTORS

- COM Express connectors
 - Two 220-pin COM Express standard connectors
 - Module connector pin: Tyco 3-1827231-6
- 1 CPU fan connector

BIOS

- SPI BIOS (optional)

TEMPERATURE

- Operating: 0°C to 60°C
- Non-operating: -40°C to 85°C

HUMIDITY

- Operating: 10% to 90%

POWER

- Input: 12V, 5VSB

REGULATORY

- EMC: CE, FCC Part 15 Class B

PCB

- Dimensions
 - COM Express basic form factor
 - 9.5cm (3.74") x 12.5cm (4.9")
- Compliance
 - PICMG COM Express R1.0 basic form factor, Type 2

