

Adbc8025

Intel EP80579 CPU Board

COM Express CPU module
Intel EP80579 1.066GHz
ECC-capable DDR2 SO-RDIMM (Max. 2GB)
USB Interface ×5ch
SATA Interface ×2ch
10/100/1000 Base-T Ethernet ×3ch
SXGA (1280×1024) graphics
PCI Express ×4 (or ×1) single port
Controller Area Network (CAN2.0b) ×2ch
Serial interface (UART) ×2ch

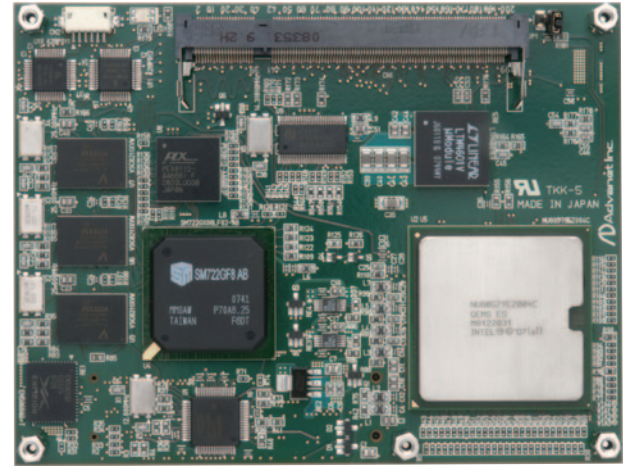


Intel EP80579 COM Express CPU Board

Overview

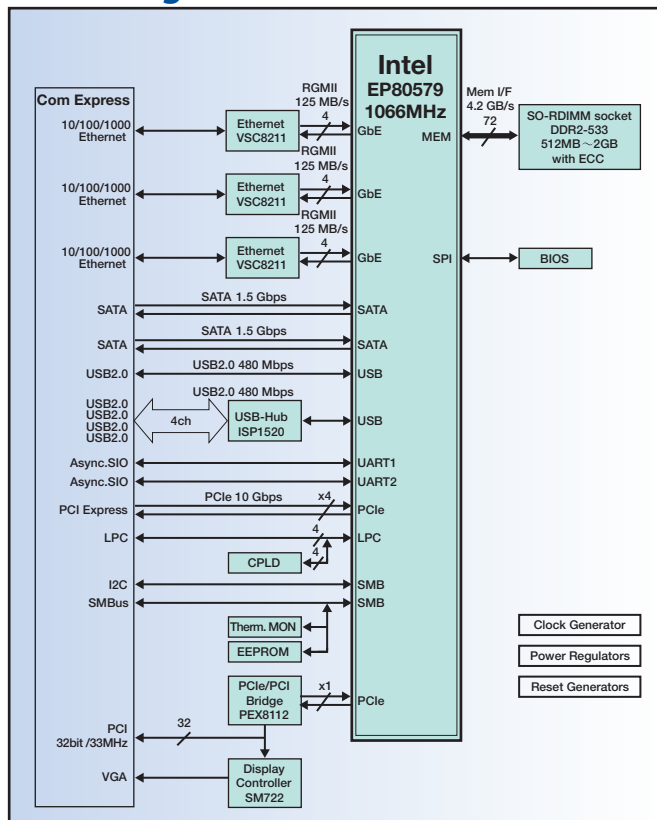
The Adbc8025 is a Computer-On-Module (COM) equipped with Intel EP80579. Utilized in concert with a carrier board that suits respective customer needs, this PICMG COM.0 R1.0-compatible board allows you to freely expand a variety of embedded systems.

Intel EP80579 is a SoC (System on Chip) that integrates various functions including the memory controller and I/O controller into the CPU core. The CPU core is a PentiumM processor running at 1.066 GHz. The Adbc8025 incorporates up to 2GB of PC2-4200-compatible SO-RDIMM main memory that supports the ECC capable of automatic correction of single bit error (1 out of 64 bits) and also capable of detecting double bit error (2 out of 64 bits).



* Memory module is optional.

Block Diagram



Specifications

CPU	Processor Operating Clock L1 Cache L2 Cache	Intel EP80579 Integrated Processor 1.066GHz 32kB for Data and 32kB for Instruction 256kB
Memory	Main Memory Boot ROM Serial EEPROM	DDR2 SDRAM SO-RDIMM, max 2GB, ECC support SPI Flash 2MB I2C EEPROM 2kb
System I/O	Graphics Ethernet Serial ATA USB UART CAN PCI Express PCI bus LPC	SXGA (1280x1024) 10/100/1000 BASE-TX x3 Serial ATA1.0a x2 USB 2.0 x5 Serial Port x2 CAN 2.0b x2 x4 (or x1) single port 32bit/33MHz, VIO=3.3V Bus LPC 1.1 interface
COM Express	Compliant Spec. Form Factor Pin out Type	PICMG COM.0 COM Express Module Base Spec Rev 1.0 COM Express Basic Size Type 3 (440pin)
Power Supply		DC12V±5%, DC5V SBY±5%
Consumption current		1.7A (typ.)
Size		125mm x 95mm

Please consult us regarding your specific custom requirements

Note: The following specifications and product appearance are subject to change for enhancement without notice.