

Main Features

- Supports Intel® Pentium® M/ Celeron® M Processor Up to 2 GHz+ with 400 MHz FSB
- Intel® 855GME Chipset For EBC 572/572A/ EBC 572(LF)
Intel® 852GM Chipset For EBC 572-C65/ EBC 572(LF)-C65
- 2 x 184-pin DIMM, Supports DDR 200/266/333 Memory Up to 2 GB
- 2 x Intel® 82551QM/82562 EM 10/100 LAN
- Supports 36-bit LVDS
- PC/104 and CompactFlash Socket

Product Overview

The EBC 572 is a 5.25" form factor embedded board computer with socket 478 that supports Intel® Pentium® M/Celeron® M or on-board 479-pin LV/ULV Pentium® M processors with 400 MHz FSB and up to 2 MB L2 cache. The EBC 572 incorporates an Intel® 82852GM or 82855GME and 82801 DB (ICH4) chipset. The Intel® 82855GME supports un-buffered ECC DDR 200/266/333 memory up to 2 GB maximum and an integrated graphic controller with 64 MB of VGA shared memory, a CRT and 36-bit LVDS display interface.

The low power consumption South Bridge ICH4 provides one PCI slot, a PC/104 interface, parallel port, slim type floppy connector, 40-pin IDE connector, CompactFlash socket, four serial ports supported by 40-pin header, four USB 2.0 ports supported by two JST 6-pin connectors, two 10/100 LAN ports, an optional audio interface with EBK AC97 module as well as others. The EBC 572 Series with great processor choices, I/O, and display support offer an flexible embedded solution.

Specifications

CPU Support

- Single Micro-FCPGA Socket 478
- Supports Intel® Pentium® M processor up to 1.7 GHz with 1 MB L2 Cache, 400 MHz FSB
- Supports Intel® Pentium® M processor up to 2.0 GHz with 2 MB L2 Cache, 400 MHz FSB
- Supports Intel® Celeron® M processor from 600 MHz up to 1.5 GHz with 512 KB on-die L2 Cache, 400 MHz FSB
- Optional on-board Intel® Micro-FCBGA 479-pin Pentium® M/ULV/ LV Pentium® M processor

Main Memory

- 2 x 184-pin DIMM sockets, up to 2 GB unbuffered DDR 200/266/333/400 SDRAM
- 855GME model supports ECC memory
- 852GM model does not support ECC memory

Chipset

- Intel® 855GME Chipset For EBC 572(104)
Intel® 852GM Chipset For EBC 572(104)-C65
- Intel® 82801 DB (ICH4)

BIOS

- Award System BIOS
- Plug & Play support
- ACPI 1.0b compliant
- 4 Mbit flash ROM

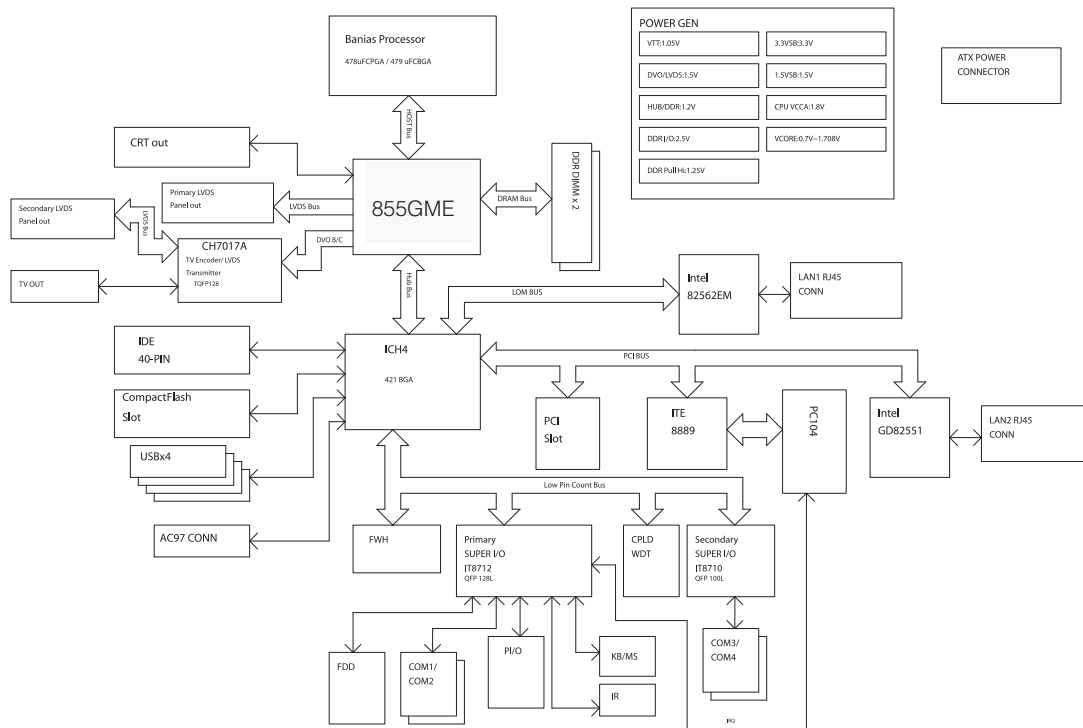
On-board LAN

- 1 x Intel® 82551QM 10/100 Fast Ethernet LAN
- 1 x Intel® 82562EM 10/100 Fast Ethernet LAN

Display

- Intel® 855GME/852GM chipset integrated with graphics controller
- Up to 64 MB of dynamic video memory
- Hardware motion compensation assist for software MPEG/DVD decoder
- VGA: 2.0 mm pin header for CRT output
- LVDS: DF13-20DP, 2 x 20-pin connector, support 18/24-bit single pixel or 18-bit dual pixel LVDS panel

Block Diagram



I/O Interface

- Serial port: 1 x 40-pin header, supports 4 x 16C550 UARTs (3 x RS232 + 1 x RS 232/422/485)
- USB: 4 ports, with 1x6 JST (2.0 mm)
- LAN: 2 x 10/100 Ethernet LAN (180 degree. Optional 90 degree RJ45 connector by request)
- HDD: Ultra ATA 100/66/33 support, 1 x 40-pin connector
- 1 x CompactFlash socket
- Parallel port: bi-directional, EPP/ECP support, 1 x 26-pin box header
- FDD: 1 x slim type connector
- PS2: 1 x 6-pin JST (2.0mm)
- Audio: ICH4 supports AC'97, optional EBK AC' 97 supports Line-in, Mic-in, Speaker-out
- Digital I/O: 4-bit TTL input, 4-bit TTL output (+3.3 V)
- On-board buzzer / SMBus 2.0 controller / Reset Switch / IDE active LED
- ATX Power Switch: 3 x 2-pin header

On-board RTC

- On-chip RTC with battery back up
- 1 x External Li-Lon battery

Storage

- HDD: 1 x 40-pin IDE connector (Secondary)

System Monitor

- Derived from super I/O to support system voltage, fan speed, temperature monitoring

Power Input

- 20-pin ATX, power input connector

Power Requirements

| Pentium-M 1.6 GHz | +12 V | +5 V | 3.3V |
|-------------------|-------|--------|-------|
| Full-Loading Mode | 0.1 A | 5.15 A | 0.5 A |

NOTE:

1. 5VSB is depending on standby power require.
2. Full Loading: Utilize CPU 100% with Burn-in test running

Dimensions

- 5.25" form factor
- 203 mm(L) x 146 mm (W) (7.9" x 5.7")

Environment

- Board-level operating temperature: -20°C to 60°C
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

Certifications

- CE approval
- FCC Class A

Ordering Information

- EBC 572 (LF)-C65 (P/N: 10E00057203X0)** RoHS Compliant
5.25" Embedded Board w/ Micro-FCBGA Celeron M 600 MHz, 512 KB L2 CPU , Intel 852GM Chipset built-in VGA LAN x 2 (Intel 82551QM x 1 + ICH4 integrated LAN); Dual Independent Display Support (CRT + LVDS)
- EBC 572 (104)-C65 (P/N: 10E57210403X2)** RoHS Compliant
5.25" Embedded Board with Micro-FCBGA Celeron M 600 MHz, 512KB L2 CPU, Intel 852GM Chipset support w/400 FSB Processors, Built- in VGA/LAN x 2 (Intel 82551QM x 1+ ICH4 integrated LAN) Dual Independent Display Support (CRT+ LVDS) with PC/104