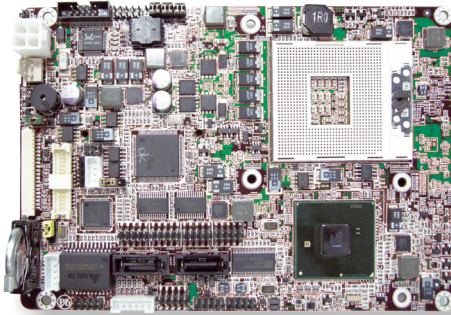


EmCORE-i55M0

1st Generation Intel® Core™ i7/i5/ Celeron® Processor 3.5" Compact Board



Features

- Intel® Core™ i7/i5 and Celeron® Mobile Processor supported
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS, and Analog RGB
- Dual Independent Displays supported
- RS-485 Auto-Flow Control supported
- **Extended Operating Temp.: -20 ~ 70°C**

System

Processor	1 st Generation Intel® Core™ i7/i5, Celeron® Processor (Socket-G rPGA988)
Chipset	Intel® PCH HM55
Memory	1 x DDR3 SO-DIMM socket, supporting up to 4GB 1066MHz SDRAM
BIOS	AMI BIOS
Watchdog Timer	1~255 levels reset

I/O

Super IO Chipset	Fintek F71869ED + F81216
Serial Port	3 x RS-232 1 x RS-232/422/485 selectable
Keyboard & Mouse	6-pin wafer connector for PS/2 keyboard/ mouse via Y-cable
USB 2.0	4 x USB 2.0 ports
Expansion	LPC (Low Pin Count)
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate 1 x CFast socket
Ethernet Chipset	1 x Intel® 82583V PCIe GbE controller
Audio Interface	Realtek® ALC662 5.1 Channel HD Audio CODEC, Mic-in/ Line-in/ Line-out

Display

Graphic Chipset	Integrated Intel® HD Graphics 5 th gen. Analog RGB with resolution up to 2048x1536, DisplayPort
Graphic Interface	LVDS: Dual Channels 24-bit LVDS, with resolution up to 1600x1200

OS Support

Windows XP 32/64-bit
Windows 7 32/64-bit

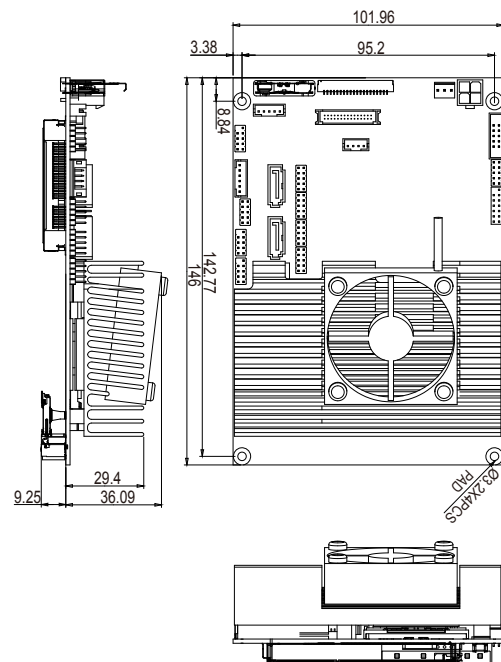
Recommended CPU list:

Intel® i7-620M 2.66GHz Core™ 2 Duo Processor
Intel® i5-520M 2.4GHz Core™ 2 Duo Processor
P4500 1.86GHz Celeron® Processor

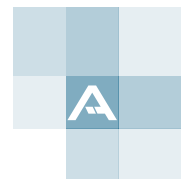
Mechanical & Environmental

Power Input	DC 12V
Power Consumption	2.81A@+12V with i5-520M (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimension (L x W)	146 x 102 mm (5.7" x 4.0")

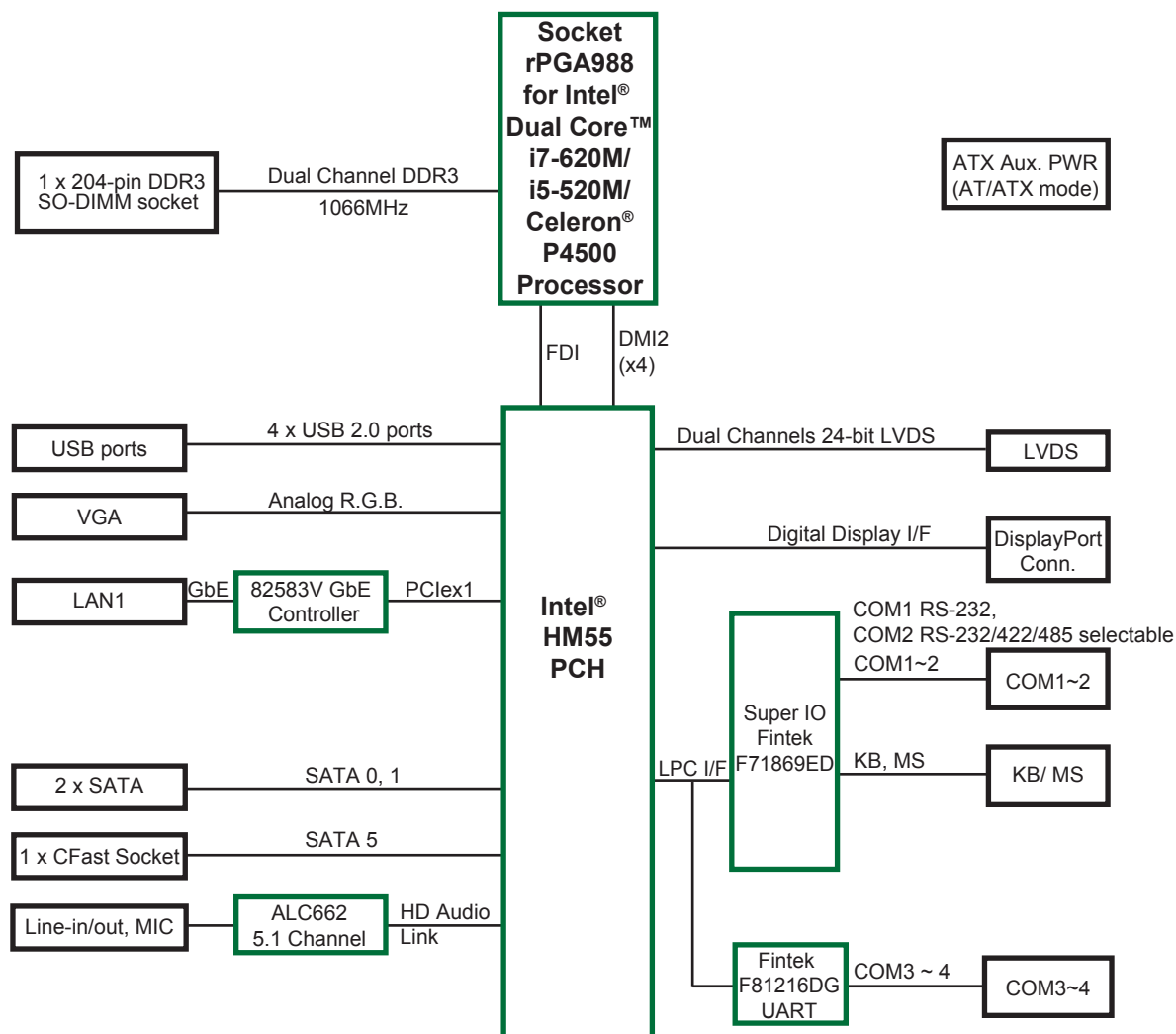
Dimensions



Unit:mm



Block Diagram



Ordering Information

EmCORE-i55M0 Socket G rPGA988 for 1st Generation Intel® Core™ processor i7/ i5, Celeron®/ HM55 3.5" compact board

Optional Accessories

FCDB-1424	DisplayPort daughterboard
FCDB-349R	16-bit digital input/ output daughter board
CBK-12-55M0-00	Cable kit 2 x USB cables 1 x Audio cable 1 x KB/MS Y-cable 2 x SATA cables 1 x VGA cable 1 x GbE Ethernet cable 1 x Serial port cable