

EmCORE-i65M3

Intel® Celeron® 827E 3.5" Compact Board



Features

- Soldered Onboard Intel® Celeron® 827E Processor
- Dual Gigabit Ethernet Ports
- Dual-Channel 24-bit LVDS, and DVI-I
- Support Dual Independent Displays
- Support RS-485 Auto-flow Control
- Integrate SIM Socket to Support Mobile Telecommunication
- **Extended Operating Temp.: -20 ~ 70°C**

System

CPU	Soldered onboard Intel® Celeron® 827E 1.4GHz processor
Memory	1 x DDR3 SO-DIMM socket, supporting SDRAM up to 4GB
Chipset	Intel® PCH HM65
BIOS	AMI PnP Flash BIOS
Watchdog Timer	1~255 levels reset

I/O

Super IO Chipset	Fintek F71869ED
Serial Port	2 x COM ports: COM1: RS-232, COM2: RS-232/422/485 selectable, upgradable to 6 x COM ports via SCDB-1293
USB Port	6 x USB 2.0 ports
Digital I/O	16-bit programmable Digital Input/Output via SCDB-349R
Expansion Bus	1 x Mini-card socket
	1 x SIM socket
	LPC interface
Storage	2 x Serial ATA ports with 600MB/s HDD transfer rate
	1 x CFast socket
Ethernet Chipset	2 x Intel® 82583V PCIe GbE controllers
Audio Interface	Realtek ALC662 HD Audio CODEC, MIC-in/ Line-out/ Line-in

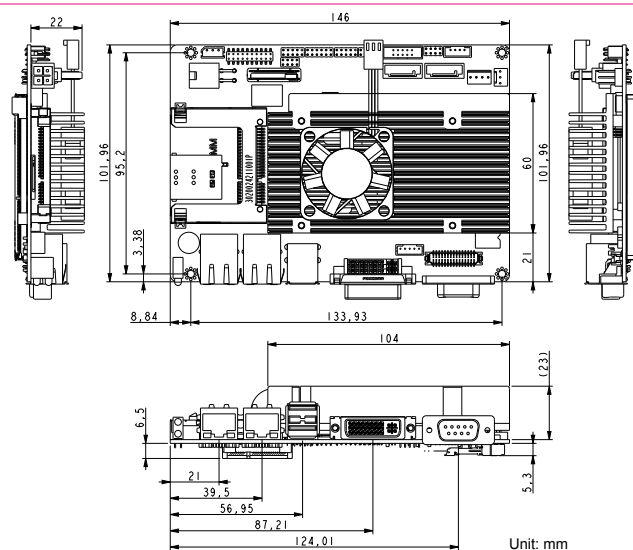
Display

Graphics Chipset	Integrated Intel® HD Graphics 3000
	DVI-I: supports Analog RGB up to 2048 x 1536 @60Hz or TMDS up to 1920 x 1200
Graphics Interface	LCD: Dual-Channel 24-bit LVDS
	Support Dual Independent Displays

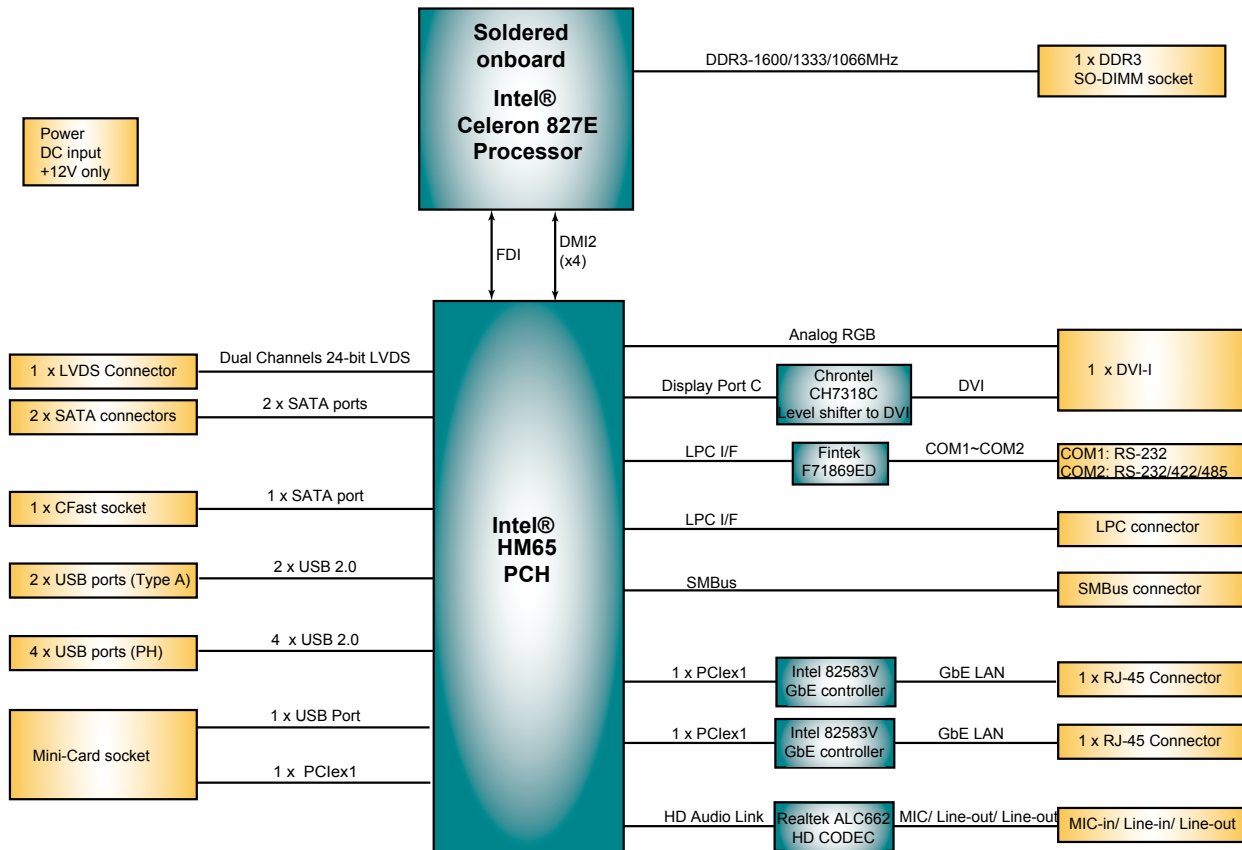
Mechanical & Environmental

Power Requirement	+12V DC
Power Consumption	3.4A@+12V (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



Block Diagram



Ordering Information

EmCORE-i65M3-827E 3.5" Intel® Celeron® 827E Compact Board

Optional Accessories

FCDB-1293	4 x COM ports, 8-bit digital I/O daughterboard	Page 130
FCDB-349R	16-bit Digital I/O board	Page 131
CBK-06-65M3-00	Cable Kit • 2 x SATA cables • 1 x audio cable • 1 x COM port cable • 2 x USB cables	

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