

# 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

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

### I/O

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

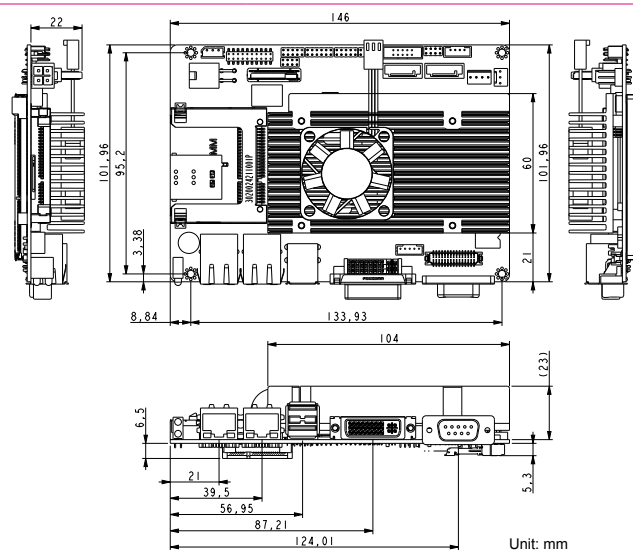
### Display

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

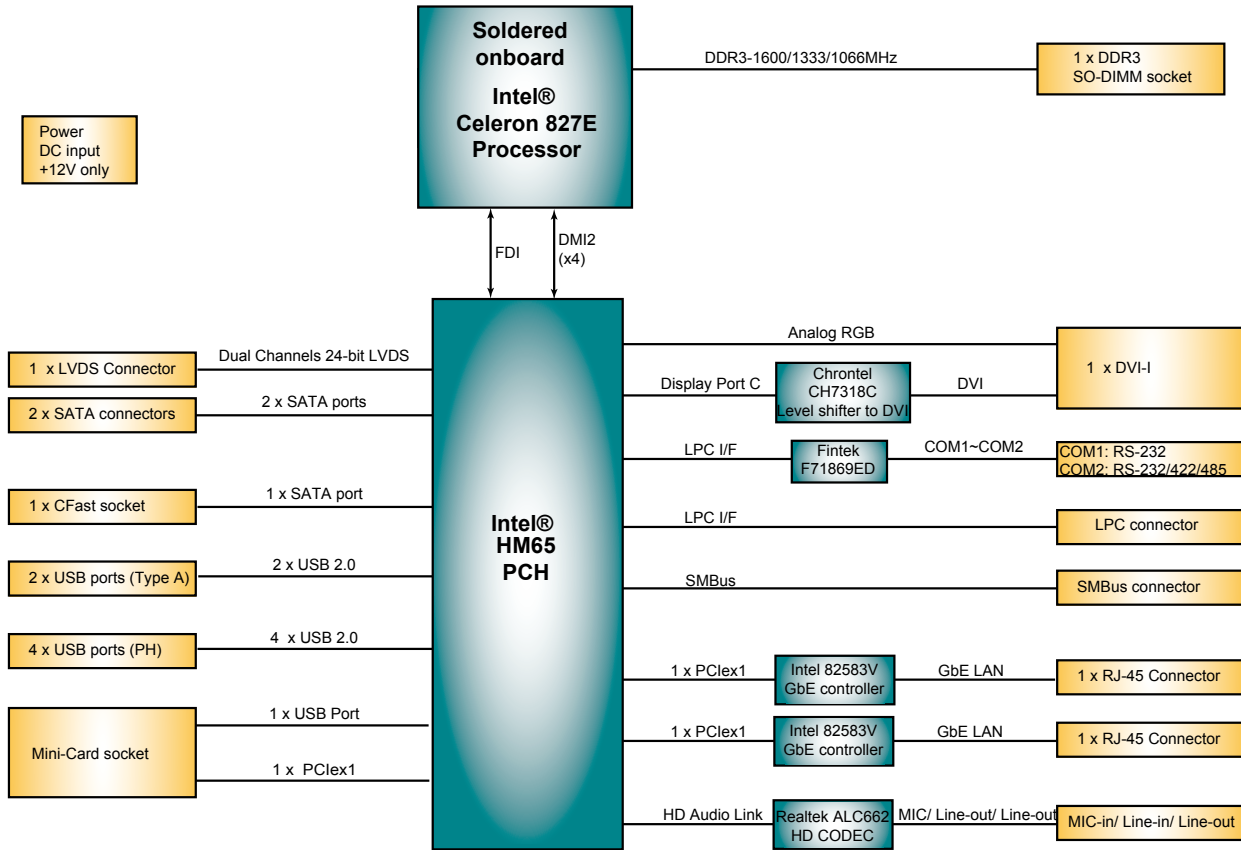
### Mechanical & Environmental

<b>Power Requirement</b>	+12V DC
<b>Power Consumption</b>	3.4A@+12V (Typical)
<b>Operating Temp.</b>	-20 ~ 70°C (-4 ~ 158°F)
<b>Operating Humidity</b>	10 ~ 95% @ 70°C (non-condensing)
<b>Dimension (L x W)</b>	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