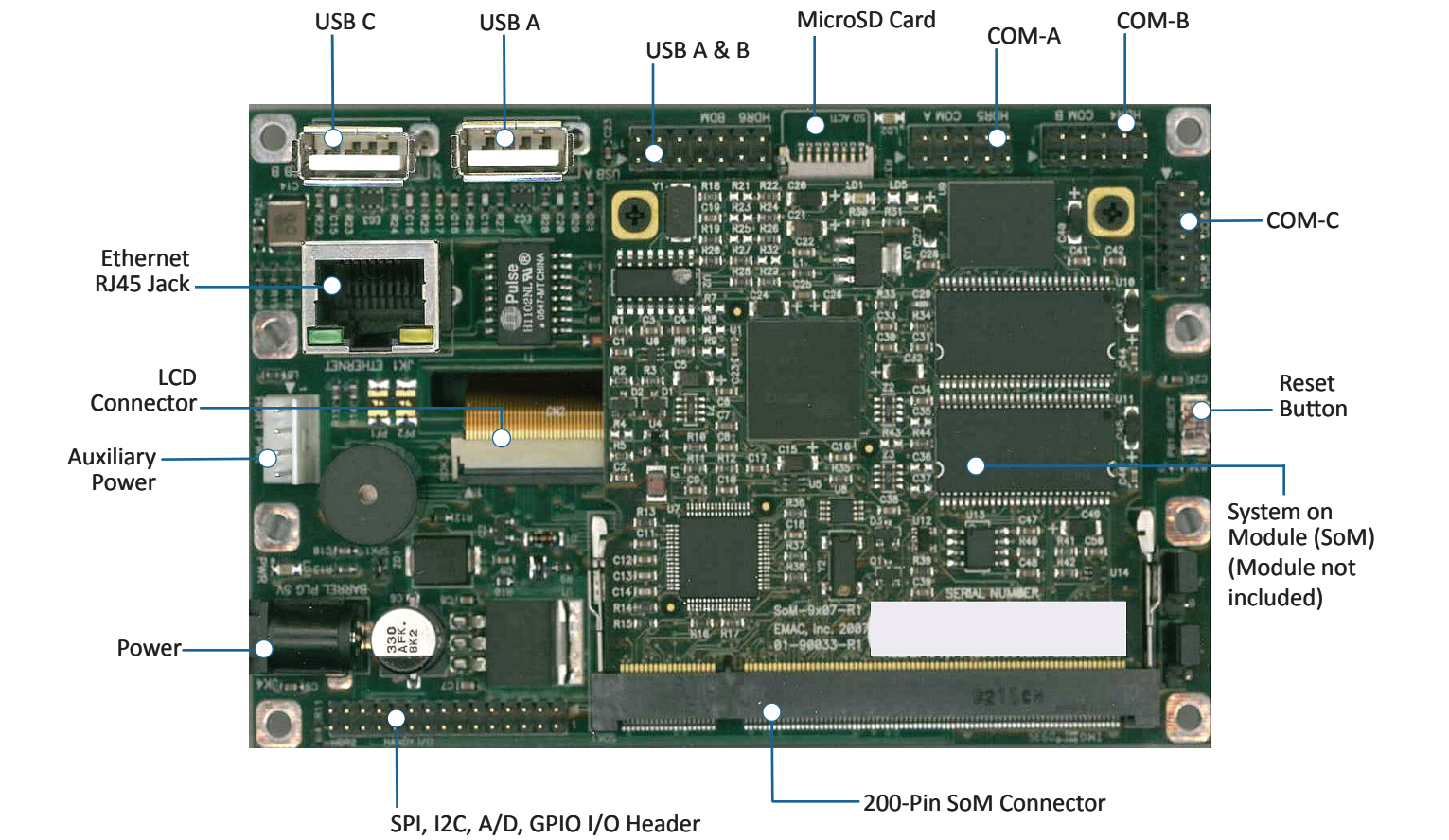# SoM-210ES

Features

- **3x Serial Ports (2x RS232 & 1x RS232/485)**
- **10/100 BaseT Ethernet with On-Board RJ-45**
- **3x USB 2.0 Host Ports**
- **MicroSD Flash Card Interface**
- **26x SoM Specific I/O lines & JTAG**
- **4.3" Graphic LCD with WQVGA TTL Interface**
- **Resistive Touch Screen Interface**
- **Small enough to fit into a 2U chassis**

Specifications

Compatibility	EMAC 200-pin SODIMM socket
Memory	1x MicroSD Flash Card Socket
I/O	26x SoM Specific I/O lines & JTAG
	1x I2S Audio Port
	3x Serial Ports (2x serial RS232 Ports & 1x RS232/485 Port)
	1x 10/100 BaseT thernet with On-Board RJ-45
	2x USB 2.0 Hosts (with access to an additional Host Port)
	Battery for Real Time Clock
	Reset Button
	1x Audio Beeper
	1x SPI Port
	Timer/Counters & Pulse Width Modulation (PWM)
	1x I2C Hardware Port
Analog	4x A/D Channels
Video	4.3" Graphic LCD Interface for TFT WQVGA (400 x 272)
	Durability - Over one million touches
	Luminance: 400 (cd/m^2)
	Backlight Brightness Control
	1x 4-wire Resistive Touch Screen Interface
Dimensions	4.8" ×3" (121mm × 76mm)
Power Req.	5V DC Including SOM, USB & LCD
	Typical Running Current Consumption 1.0A
	(Note: up to 1.0A additional is required if USB Host is providing power up to to 3x USB devices)
Environment	0° to 60° C Operating Temperature
	90% Upper Operating Humidity

USB C

USB A

USB A & B

MicroSD Card

COM-A

COM-B

COM-C

Ethernet RJ45 Jack

LCD Connector

Auxiliary Power

Reset Button

System on Module (SoM) (Module not included)

Power

200-Pin SoM Connector

SPI, I2C, A/D, GPIO I/O Header

*System on Module (SoM) - Module not included

Carrier Board Options

PRODUCT #	DESCRIPTION
SoM-210ES-000	Standard Carrier Board with 4.3" TFT Color LCD
SoM-210ES-007	Bare-Bones Carrier Board without LCD