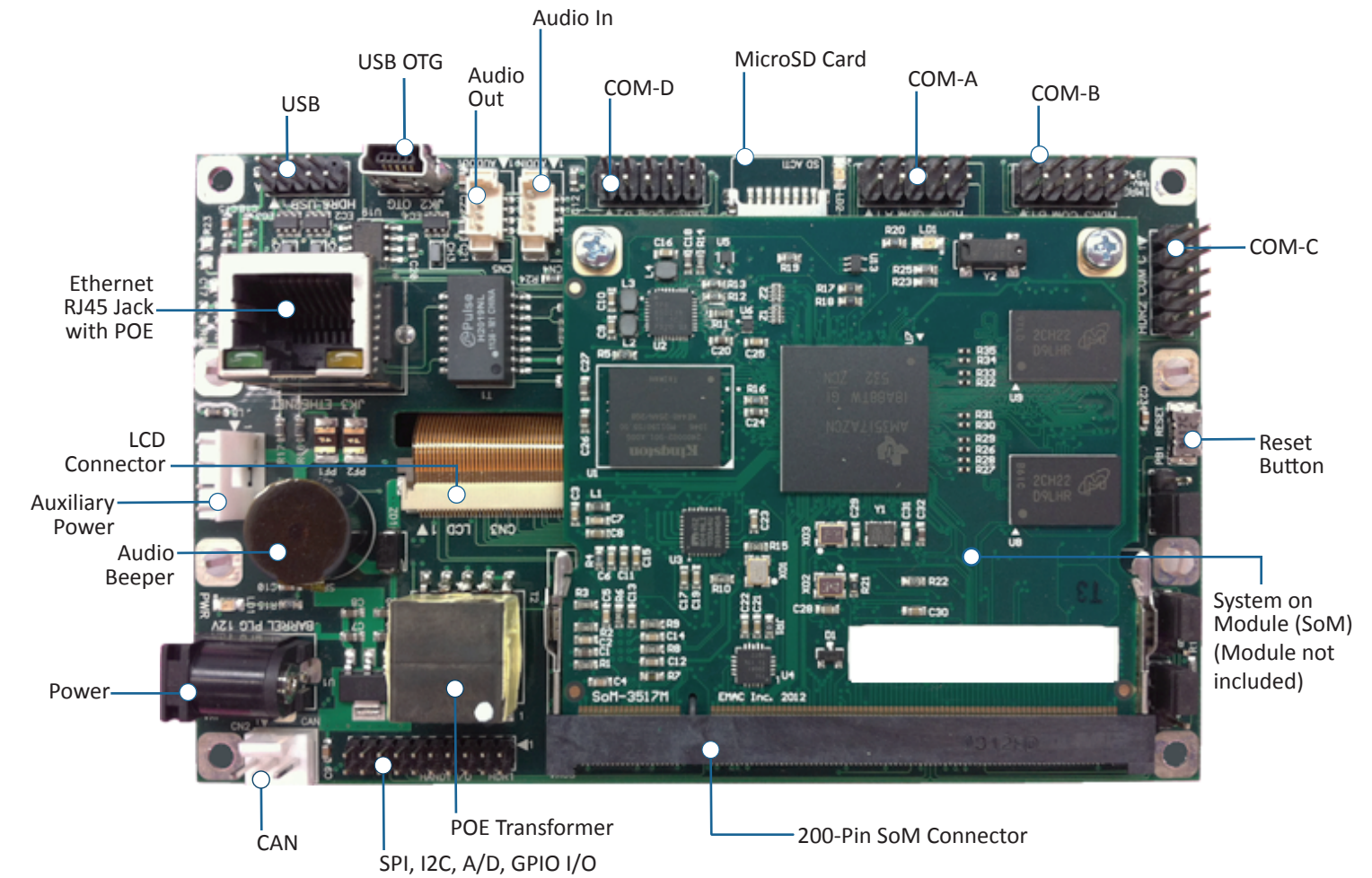# SoM-212ES

Features

- **4x Serial Ports (3x RS232 & 1x RS232/485)**
- **10/100 BaseT Ethernet with On-Board RJ-45**
- **2x USB 2.0 Hosts & 1 USB OTG**
- **26x SoM Specific I/O lines**
- **4.3" Graphic WQVGA LCD with 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
	1x I2S Audio Line In/Out Port
	4x Serial Ports (3x serial RS232 Ports & 1x RS232/485 Port)
	1x CAN 2.0b Port
	1x 10/100 BaseT thernet with On-Board RJ-45 (POE Type 1 Optional)
	2x USB 2.0 Host Ports
	1x USB OTG (Host/Device)
	Battery for Real Time Clock
	Reset Button
	1x Software Controller Beeper
	1x SPI Port
	Timer/Counters & Pulse Width Modulation (PWM) Ports
	1x I2C Hardware Port
Analog	4x Channels A/D
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.	8-36 Vdc Wide Input or Regulated 5 Vdc Power for SoM, USB & LCD
	Typical Running Current Consumption 5W
	(Note: up to 1.0A additional is required if USB Host is providing power up to 3x USB devices)
	Power Over Ethernet Device (POE Type 1 Optional)
Environment	0° to 60°C Operating Temperature
	90% Upper Operating Humidity

EMAC, inc.

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*System on Module (SoM) - Module not included

Carrier Board Options

PRODUCT #	DESCRIPTION
SoM-212ES-000	Standard Carrier Board with Touch Screen
SoM-212ES-003	Deluxe Carrier Board with Touch Screen, POE, and Stereo Audio
SoM-212ES-007	Bare-Bones Carrier Board without LCD