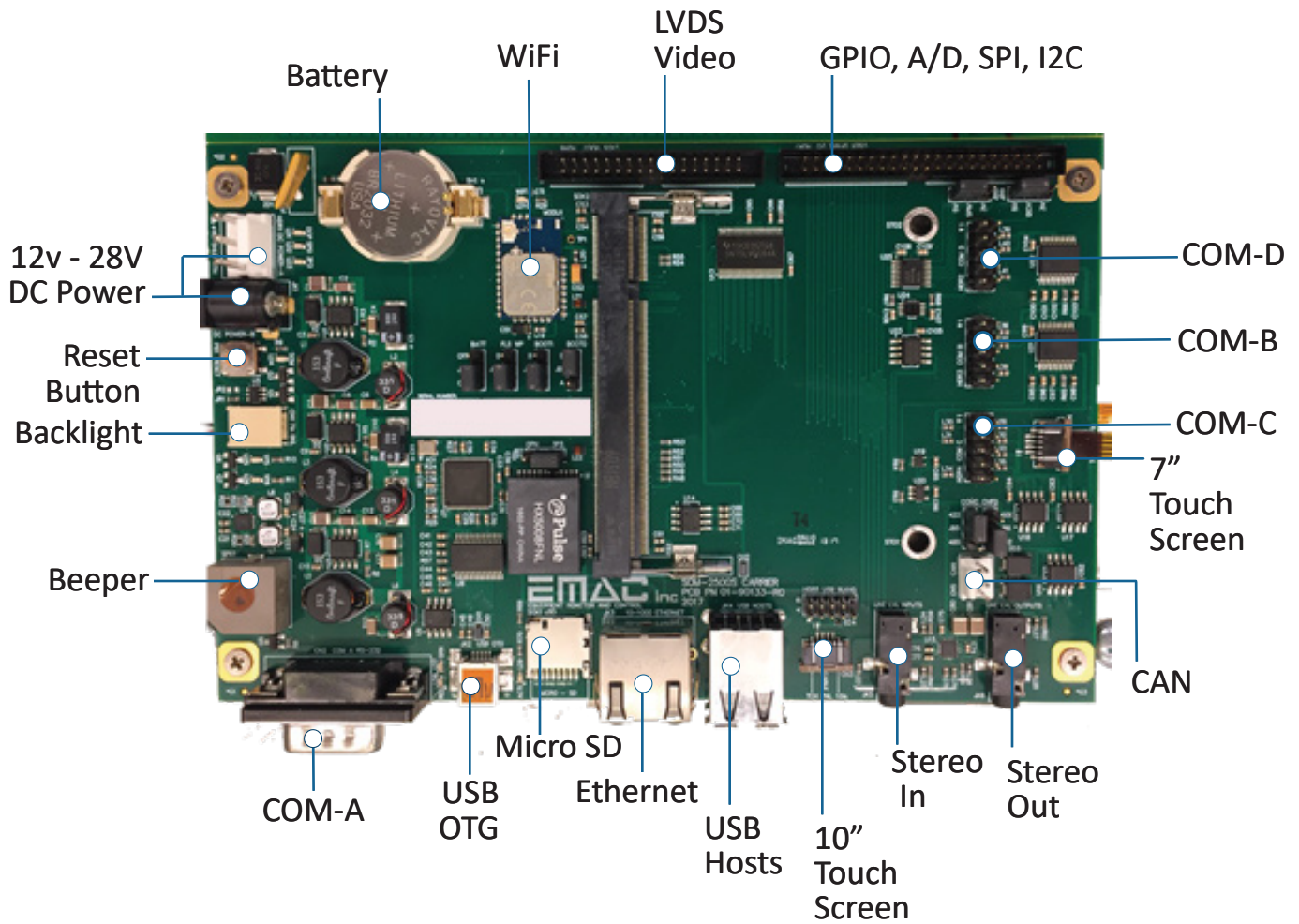# SoM-250GS

Features

- **WiFi 802.11 b/g/n**
- **4x Serial Ports (3x RS232 & 1x RS232/422/485)**
- **22x SoM Specific I/O Lines**
- **1x Gigabit Ethernet with Status LEDs**
- **Graphic LCD with TTL & LVDS Interfaces**
- **Resistive Touch Screen Interface**
- **2x USB Host & 1x USB OTG Port**
- **I2S Audio Port with Line-In/Line-Out**

Specifications (Actual I/O Availability is SoM Dependent)

Compatibility	EMAC 200-pin SODIMM socket
Memory	Micro-SD card Slot
I/O	22x SoM Specific I/O lines (GPIO, A/D, SPI, I2C)
	4x Serial Ports (3x RS232 & 1x RS232/422/485)
	1x I2S Audio port with Line-In/Line-Out
	1x CAN 2.0B Port
	1x 10/100/1000 BaseT Ethernet with Status LEDs
	2x USB 2.0 High Speed Host ports
	1x USB 2.0 High Speed OTG port
	Battery for nonvolatile RAM and Real Time Clock
	System Reset button
	1x Audio Beeper
Video	7" TFT Color LCD, 800 x 480 WVGA @ 256K Colors
	800 (cd/m²), Durability - Over one million touches
	10" TFT LVDS Color LCD, 1024 x 600 WSVGA @ 256K Colors
	460 (cd/m²), Durability - Over one million touches
	Backlight Brightness Control
	4-Wire Analog Resistive Touch Screen
Analog	4x Channels A/D
Wireless	Wireless 802.11 b/g/n; Bluegiga [WF111-E]
Dimensions	Barebones: 6.55" × 4.15" (166mm × 105mm) 7" LCD 7.55" x 4.20" (192mm x 106mm) 10" LCD 10.35" x 5.76" (263mm x 146mm)
Power Req.	Input Voltage +12 to +28 Vdc.
	Typical Running Current Consumption 350mA @12 Vdc including SoM, USB & LCD
	(Note: Up to 1.0A is Req. if USB Host is providing power to 3x USB devices)
Environment	0° to 60°C Operating Temperature (Extended Temperature Optional)
	90% Upper Operating Humidity

www.emacinc.com   info@emacinc.com   Carrier Board   EMAC, inc.

Our Products Make Your Products Better®

Last Updated: 5-02-19 / Product specifications are subject to change without notice.

Carrier Board Options

PRODUCT #	DESCRIPTION
SoM-250GS-000	Standard Carrier Board with CAN, Audio, 7" LCD & Touch Screen, WiFi
SoM-250GS-001	Deluxe Carrier Board with CAN, Audio, 10" LCD & Touch Screen, WiFi
SoM-250GS-007	Bare-Bones Carrier Board with CAN, Audio, WiFi, without LCD

Optional Accessories

PRODUCT #	POWER SUPPLY
PER-PWR-00035	12V @ 2.1A Wall Power Supply (110 V @ 60 HZ US)
PER-PWR-00075	12V @ 2.1A, 90-264V @ 47-63Hz input, Universal power prongs for worldwide use, 2.1mm Barrel
PER-PWR-00090	12V @ 2.5A Desktop Power Supply, standard IEC 320-C14 input connector, 2.1mm barrel jack output
PER-MIS-00050	2.4GHz & 5GHz WiFi Antenna with 10 cm cable, IPEX connector, adhesive antenna.

Packing List

PRODUCT #	PERIPHERALS
03-90021	M2.5 5mm Screws for mounting SOM module
CAB-35-001-1	Serial Cable 10p IDC to DB9

EMAC, inc.

Our Products Make Your Products Better®