



## Features

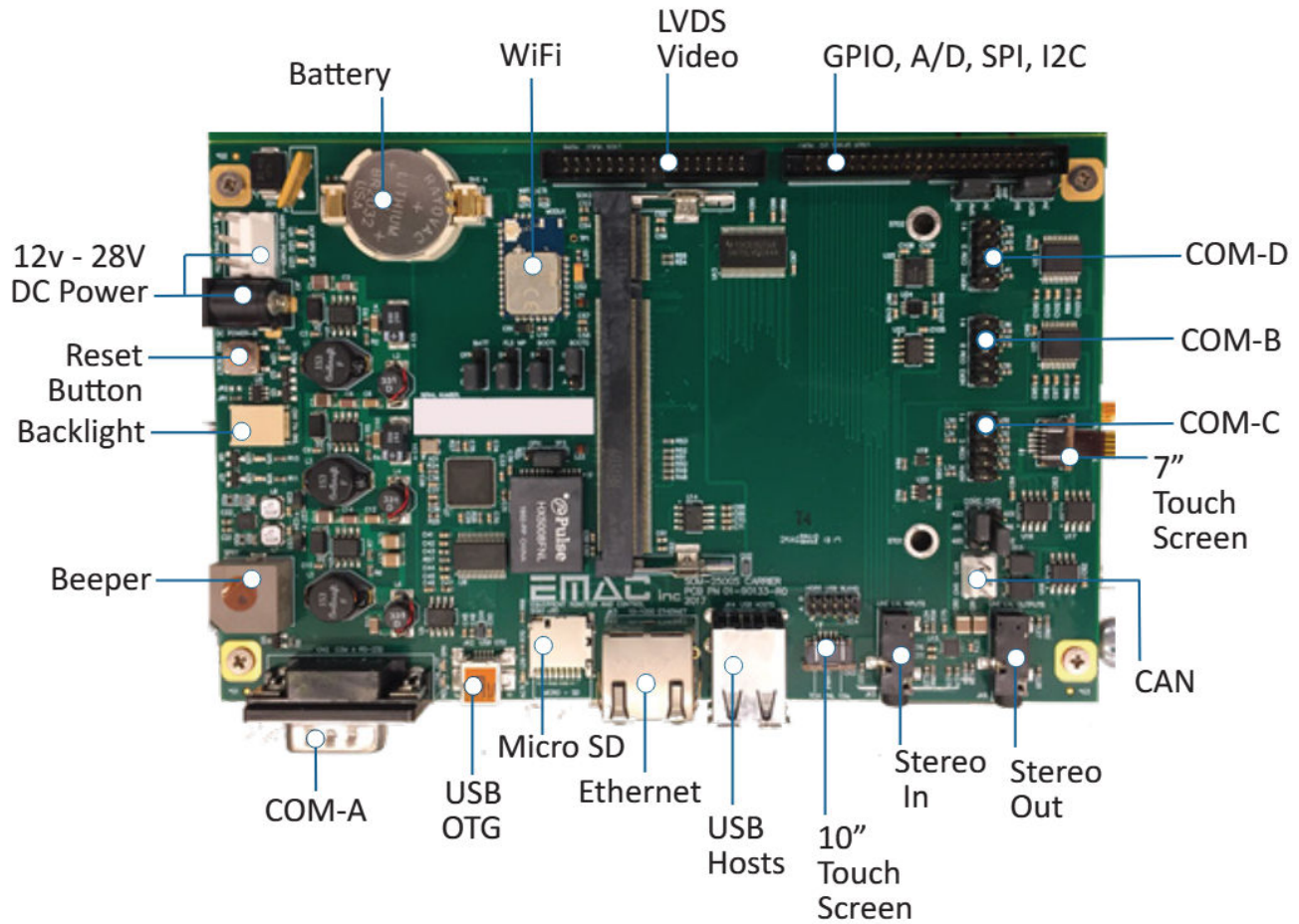
- 7" (800 nits) or 10.1" (460 nits) LCD with Touch
- 4 Lane CSI, DSI & LVDS Interfaces
- 12Vdc to 28Vdc Wide Input Voltage
- 2x USB 2.0 Hosts & 1x USB2.0 OTG
- 4 Serial Ports (3x RS232/1x RS232/422/485)
- CAN, SPI, I2C ports & 4 Channels of A/D
- I2S Audio In & Out
- Optional Wifi



## 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 (16x GPIO, 4x A/D, 1xSPI, 1xI2C, 4xPWM)		
	4x Serial Ports (3x RS232 & 1x RS232/422/485)		
	1x I2S Audio port with Line-In/Line-Out		
	1x CAN-FD Port		
	1x 1000 BaseT & 1x 100/1000 BaseT RMII/RGMII PHY (Microchip VSC8531XMW-05) with Status LEDs2x		
	USB 2.0 High Speed Host ports 1x USB 2.0 High Speed OTG port		
	Battery for Real Time Clock		
	4x MIPI-CSI Lanes 1x Audio Beeper System Reset Button		
Video	7" TFT Color LCD, 800 x 480 WVGA @ 256K Colors 800 (cd/m <sup>2</sup> ), Durability - Over one million touches		
	10" TFT LVDS Color LCD, 1024 x 600 WSVGA @ 256K Colors 460 (cd/m <sup>2</sup> ), Durability - Over one million touches		
	4x MIPI DSI Lanes and LVDS (LVDS on Barebones)		
	4-Wire Analog Resistive Touch Screen & Backlight Brightness Control		
Analog	4x Channels A/D & 4x PWMs (SOM Dependent)		
Wireless	Wireless 802.11 a/b/g/n & Bluetooth 5.1; TI WL1807MOD		
Dimensions	Barebones: 6.55" x 4.15" (166mm x 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		





### Carrier Board Options

PRODUCT #	DESCRIPTION
SOM-255G2-000	Standard Carrier Board with CAN, Audio, 7" LCD & Touch Screen, WiFi & Bluetooth
SOM-255G2-001	Deluxe Carrier Board with CAN, Audio, 10" LCD & Touch Screen, WiFi & Bluetooth
SOM-255G2-007	Bare-Bones Carrier Board with CAN, Audio, without WiFi & 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

