

SOM-350ES

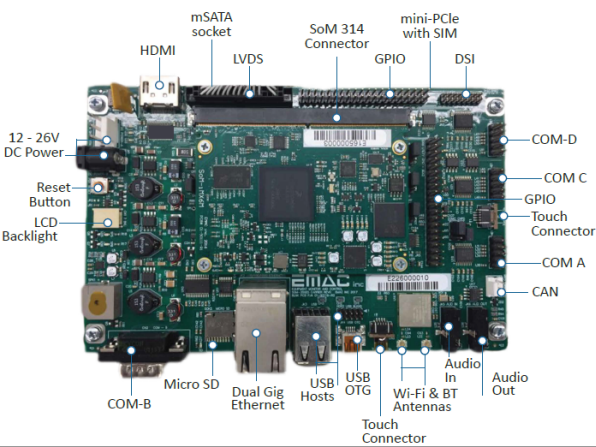
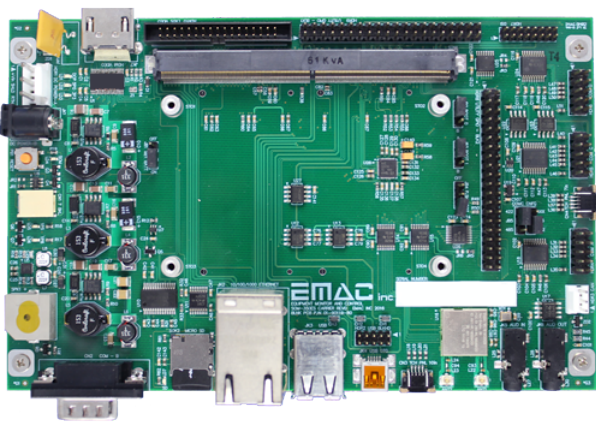


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314 pin MXM EM4C G2 Spec (see detailed 314 pinout specification for details)

I2C EEPROM (06-90092)

1x mini PCIe Socket

1x mSATA Socket

SD card interface with Status LED

1x microSD Flash Card Socket

16x Processor General Purpose I/O (GPIO) SoM Lines

I2S (1x I2S Audio port with Line-In/Line-Out & 1x I2S TTL)

2x 10/100/1000 BaseT (Gig) Ethernet with Status LEDs

2x CAN 2.0b (1x CAN with Transceiver & 1x CAN TTL)

4x Serial ports (3x RS232 & 1x RS232/422/485)

2x USB 2.0 High-Speed Host ports

1x USB 2.0 High-Speed OTG port

2x Timers/Counters & 4x PWM

System Reset button

1x Audio Beeper

2x SPI, 3x I2C

7" TFT Color LCD option, 800 x 480 WVGA @ 256K Colors (Operating Temperature: -20° to +70°C)

800 (cd/m²), Durability - Over one million touches

10" TFT LVDS Color LCD option, 1024 x 600 WSVGA @ 256K Colors (Operating Temperature: 0° to +50°C)

460 (cd/m²), Durability - Over one million touches

LCD options include Mounting bracket and cables.

Graphic LCD, HDMI, LVDS, & DSI Interfaces

Backlight Brightness Control

4-Wire Analog Resistive Touch Screen

4x A/D Channels

TI WL1835MOD supporting 802.11 a/b/g/n Wi-Fi, 2 × 2 MIMO channels (optional)

TI WL1835MOD supporting Bluetooth with dual-mode Bluetooth 4.1 and Bluetooth LE (optional)

The SOM-350ES carrier board is 6.55" x 4.15" (166mm x 105mm)

With the 7" LCD bracket the dimensions are 7.55" x 4.15" (191mm x 105mm) (The metal mounting tabs add 1" to the width)

0° to 60°C Operating Temperature [-40 to +85C optional]

90% Upper Operating Humidity

Power Input 12 to 28 Vdc.@ 12W

RoHS 2 (2011) compliance

Software Brightness control

The SoM-350ES is a compact, low-power SoM Carrier/Socket board with an optional 7” WVGA (800 x 480) or the 10" WSVGA (1024 X 600) color LCD and resistive touch screen. This versatile SoM Carrier/Socket board is ideal for evaluation and early development work. This Carrier is designed to work with all EMAC 314-pin MXM EM4C G2 Spec SODIMM type SoMs. Note: The SoM-350ES is specifically designed for EMAC 314 pin SoMs. The SoM-350ES provides access to much of the SoM's I/O through onboard connectors as well as a number of additional I/O expansion blocks such as Video, Touchscreen, Dual Gigabit Ethernet, Mini-PCIE, mSATA and Micro HCSD/MMC flash disk.

Specifications

SOM Type:

SODIMM Carrier Boards

Processor
Real Time Clock:

Primary I/O
GPIO.

16x GPIO

Disk Interface:

Micro-SD Card Slot & mSATA Socket

Video Out:

LCD

HDMI

LVDS

DSI Interfaces

SPI:

2x SPI port with 2 slave selects

Audio:

I2S (1 I2S Audio Line In/Out & 1x I2S TTL)

Ethernet:

2x Gig BaseT Ethernet Ports with Status LEDs

USB:

3x USB (2x USB 2.0 high speed ports & 1x USB 2.0 OTG port

Serial Ports:

4x Serial Ports (3x RS232 & 1x RS232/422/485)

I2C:

3x I2C

Watchdog:

Secondary I/O
CAN.

2x CAN 2.0 Port

Timers/ Counters/ PWM:

2x Timer/Counters/PWM

LPT Port:

Keypad:

PS/2:

Touch:

LCD/HDMI/LVDS/DSI Interfaces

Secondary I/O Misc.:

2x CAN: 1x CAN 2.0B with Transceiver & 1x CAN TTL

Analog on
A/D.

A/D Channels:

4

D/A:

Dimensions
Dimensions.

6.55 × 4.15 in

Dimensions Misc.:

7" LCD bracket the dimensions are 7.55" x 4.15" (191mm x 105mm) (The metal mounting tabs add 1" to the width)

Power Requirements
Power Misc.:

Power- 12 to 28 Vdc

Environmental
Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

90%

Environmental Misc.:

[-40° C to +80° C Optional]

Pricing
SoM-350ES-007

Barebones Carrier Board (No LCD & No Wireless)

\$250.00

Order:

6

Base Product:

SoM-350ES

SoM-350ES-000

Standard Carrier Board 7" LCD 800x480 WVGA, No Wireless

\$399.00

Order:

1

Base Product:

SoM-350ES

SoM-350ES-001

Standard Carrier Board 10" LCD 1024 x 600 WSVGA, No Wireless

\$399.00

Order:

3

Base Product:

SoM-350ES

SoM-350ES-017

Barebones Carrier Board with 802.11 a/b/g/n Wi-Fi & Bluetooth (No LCD)

\$285.00

Order:

5

Base Product:	
SoM-350ES	
SoM-350ES-010	
Deluxe Carrier Board 7" LCD 800 X 480 WVGA with 802.11 a/b/g/n Wi-Fi & Bluetooth	
\$435.00	
Order:	
3	
Base Product:	
SoM-350ES	
SoM-350ES-011	
Deluxe Carrier Board 10" LCD 1024 x 600 WSVGA with 802.11 a/b/g/n Wi-Fi & Bluetooth	
\$435.00	
Order:	
4	
Base Product:	
SoM-350ES	
Non-Stock NCNR:	
0	
Carrier Boards:	
SoM-iMX6M-352 (Dual)	
iMX6 Dual, iMX6D 2x1GHz, 1GB DDR3, 16MB Serial Data Flash, 4GB eMMC, PCIe, CSI, CAN, HDMI, LVDS (-40° to 85°C, Heat-spreader recommended above 40°C)	
\$198.00	
Base Product:	
SoM-iMX6M	

Source URL: <https://www.emacinc.com/content/som-350es>