



Features

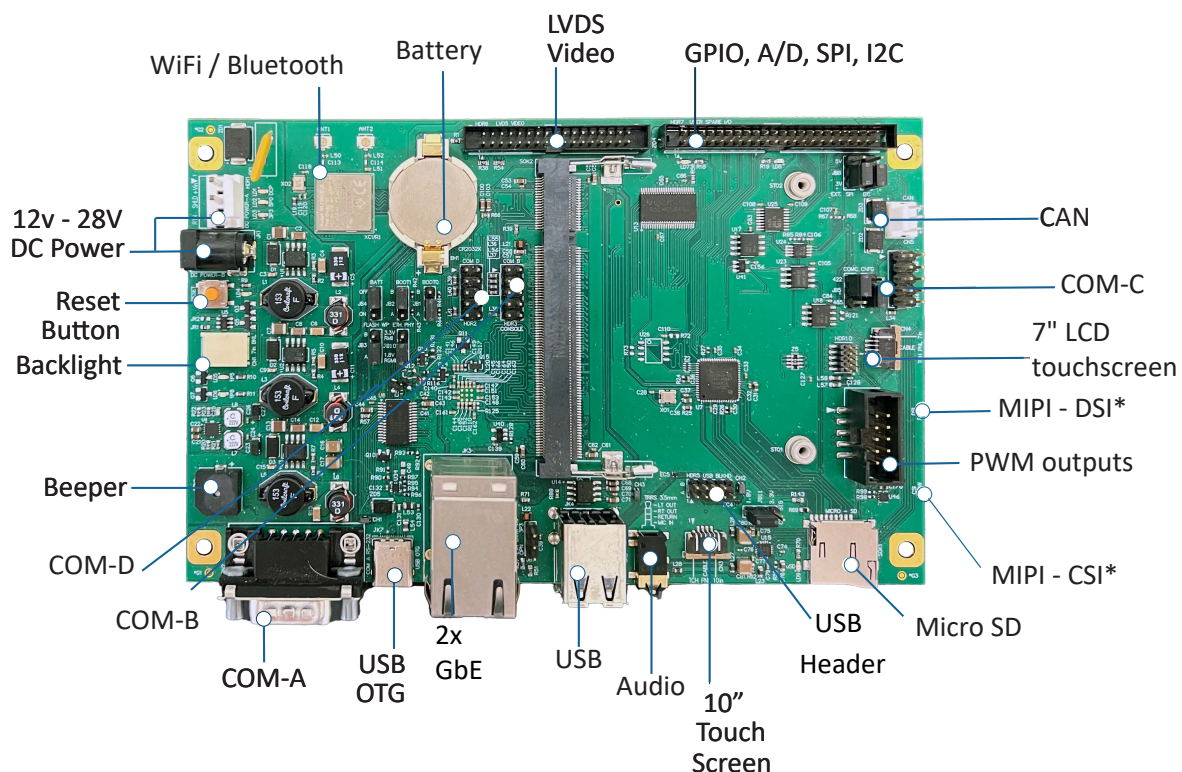
- 7" (900 nits) or 10.1" (460 nits) Wide LCD with Touch
- 4 Lane CSI, 4 Lane DSI & Micro SD
- 4 Serial Ports (3x RS232/1x RS422/485)
- CAN, SPI, I2C ports & 4 Channels of A/D
- I2S Audio In & Out
- 2x GbE, Wifi / Bluetooth
- -20° to 70°C Operating Temperature



Specifications (Actual I/O Availability is SoM Dependent)

Compatibility	EMAC 200-pin SODIMM socket
Memory	1x SD Flash Card Socket
I/O	16 GPIOs
	20x SOM Specific I/O Lines & 14 Expander I/O Lines
	Audio Line In & Out, Audio Beeper
	Dual 1000 BaseT Ethernet with Status LEDs
	4 Serial Ports (3x RS232/1x RS422/485)
	1x CAN 2.0 Port
	2 USB 2.0 High speed Host ports (Type A), 1 USB 2.0 High speed OTG (Type C)
	Reset Button
	Power & SD/WiFi Activity Status LEDs
	1x I2C, 1x SPI (3 chip selects)
Analog	1x WiFi 802.11 a/b/g/n 2.4 & 5.0 GHz [optional]
	1x Bluetooth 5.1 [optional]
	4x Channels A/D
	1x Graphic LVDS LCD Interface 44-pin dual row 2mm header
Video	7" LCD (800x480) or 10" LCD (1024x600)
	Backlight Brightness Control
	1x 4-wire Resistive Touch Screen Interface
Dimensions	7.55" x 4.15" x 1.15" (191mm x 105mm)
Power Req.	Power Input 12 to 28 Vdc
	Typical Running Current Consumption 800mA (830mA with WiFi) 5V +/- 10%
Environment	4-pin Molex power supply connector and standard barrel power jack
	-20° to 70°C Operating Temperature
	90% Upper Operating Humidity





*(bottom of board)

Carrier Board Options

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

Optional Accessories

PRODUCT #	DESCRIPTION
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

Compatible SOMS

PRODUCT #	DESCRIPTION
SOM-35D1F122	Nuvoton MA35D1, 512MB RAM, 4GB flash, CSI -30 to 85°C
SOM-35D1F-212	Nuvoton MA35D1, 512MB RAM, 4GB flash -40 to 85°C
SOM-RZG2L	Renesas RZ/G2L 2/4GB RAM, 8GB flash, CSI -40 to 85°C
SOM-RZV2L	Renesas RZ/V2L 4GB RAM, 8GB flash, DRP-AI, CSI -40 to 85°C

