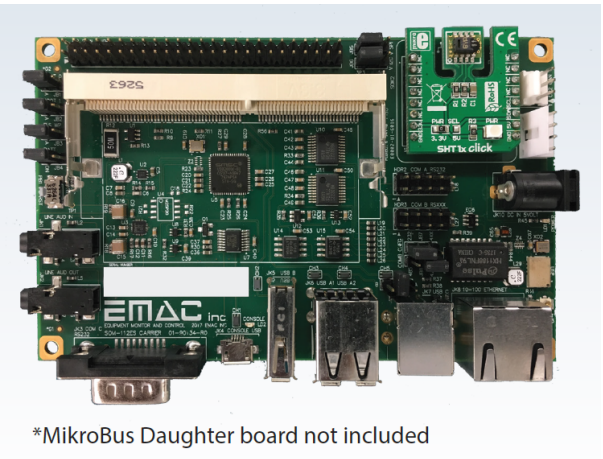
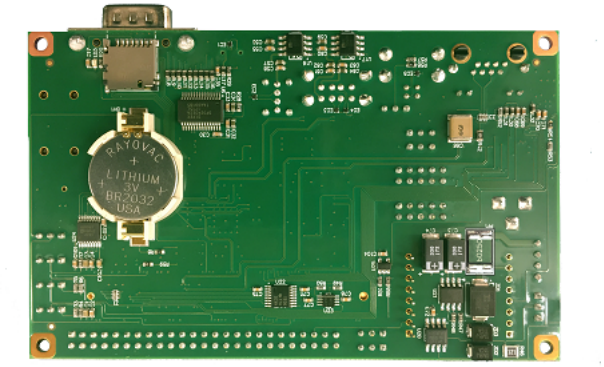
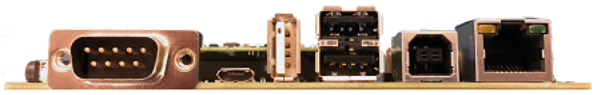
SOM-112 ARM Iot Wireless Carrier Board







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EMAC OEM
WiFi & bluetooth

4x Serial Ports

- 2x RS232 ports, 1x USB to Serial & 1x RS232/485 Port

3 USB Host ports & 1 USB Device Port

10/100 BaseT Ethernet with onboard Magnetics and RJ45

Wifi/BT & CAN 2.0B Port

General I/O: GPIOs, SPI, A/D, D/A, PWM, I2C, I2S

MikroBus Expansion

Barrel power jack

Standard Molex male floppy power connector for alternate power input

DB9 male for COM A

3x 10 pin header for serial ports

1x micro USB connector for serial console

1x dual USB Type A connector

1x single USB Type A Vertical connector

1x mini USB Device connector

1x RJ45 Ethernet connector

Micro SD Card Socket

1x 3-pin polarized locking connector

1x dual row 50-pin .1” GPIO/Misc. Header connector

2x audio in/out jacks (same as SoM-350)

RoHS 2 (2011) compliance

The SoM-112ES is a compact, low-power SoM Carrier/Socket board with WiFi and Bluetooth connectivity onboard, and MikroBUS expansion. This versatile SoM Carrier/Socket board is ideal for evaluation and early development work. This Carrier is designed to work with all EMAC 144-pin SODIMM type SoMs. Note: The SoM-112ES is specifically designed for SoMs with APM sleep capability and utilizes GPIO controllable IO to further reduce sleep current draws.

The SoM-112ES provides access to much of the SoM's I/O through on-board connectors as well as a number of additional I/O expansion blocks such as Wireless Networking, Gigabit Ethernet, MikroBUS modules, and HCSD/MMC flash disk.

When paired with the SOM-IMX6U the SOM-112ES makes an IoT connectivity solution, using a MikroBUS ZigBee Wireless module the

SOM-112ES can collect and route IoT sensors to the Cloud.

Specifications

SOM Type:
SODIMM Carrier Boards

Processor

Real Time Clock:

Primary I/O

GPIO:
8x GPIO

Disk Interface:
MicroSD

Audio:
1x I2S audio with Line in & out jacks
Ethernet:
1x 10/100 BaseT Ethernet with status LEDs
USB:
3x USB 2.0 & 1x USB Device
Serial Ports:
4x Serial Ports (3x RS232 & 1x RS232/422/485)
Watchdog:

Secondary I/O

CAN:
1x CAN 2.0B Port
LPT Port:
Keypad:
PS/2:

Expansion

Bus Misc.:
MikroBUS Expanson Socket (MikroBUS module Optional)

Analog

A/D:
A/D Channels:
8
A/D Resolution:
12-bit
D/A:
D/A Channels:
8
D/A Resolution:
12 bit

Dimensions

Dimensions:
3 × 4.75 × 0.75 in

Environmental nents

Low Operating Temperature:
0 C
High Operating Temperature:
60 C
Environmental Misc.:
Industrial temperature range -40° to +85°C optional

Pricing

SOM-112ES-100R
Standard version (does not have WiFi, Audio or multi-I/O options)
$165.00
Order:
0
Parent Product:
SOM-112ES
Base Product:
SOM-112ES
SOM-112ES-131R
Deluxe version with multi-I/O, wifi, audio

$195.00
Order:
0
Parent Product:
SOM-112ES
Base Product:
SOM-112ES
Non-Stock NCNR:
0
