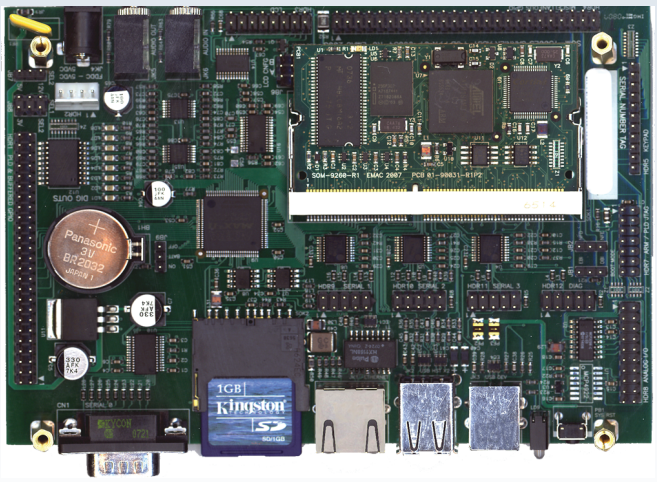
SoM-150ES

144-pin SODIMM Carrier Board

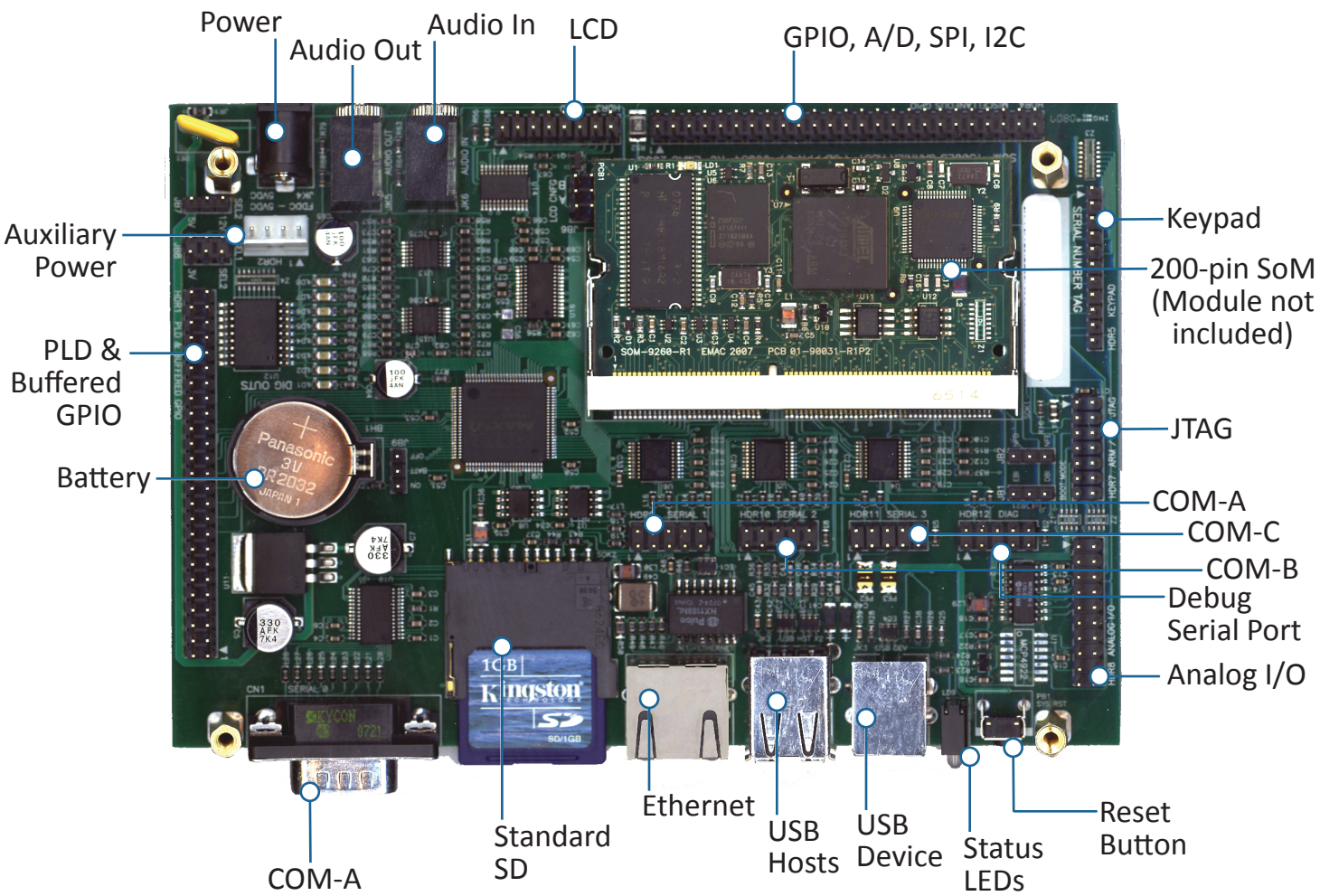


Features

- 4x Serial Ports (3x RS232, 1x RS232/485)
- Up to 48x Digital General Purpose I/O lines
- 1x 10/100 BaseT Ethernet
- Audio & CAN 2.0B
- 2x USB Host Jack & 1x USB Device Jack
- 8x A/D & 4x D/A

Specifications (Actual I/O Availability is SoM Dependent)

Compatibility	EMAC 144-pin SODIMM socket
I/O	30x PLD Controlled General Purpose digital I/O lines in addition to SoM I/O lines
	24x General Purpose digital (PLD) I/O lines
	8x GPIO Lines are High Drive Digital Output Lines with Status LEDs (500 ma. sink)
	1x CAN 2.0B Port
	1x 10/100 BaseT Ethernet with onboard Magnetics and RJ45 Jack
	4x Serial Ports (3x RS232, 1x RS232/485)
	2x USB Host Jack
	1x USB Device Jack
	24-key Keypad Interface
	Battery for nonvolatile RAM & Real Time Clock
	MMC/SD Flash Card Socket
	Power and MMC/SD status LEDs
	System Reset button
Video	Character LCD interface
Analog	8 channel 12-bit A/D single ended
	2 channel 12-bit D/A (0 - 2.5V output)
	I2S Audio Stereo CODEC with Line In/Out Jacks
Dimensions	Small 144-pin Form Factor 4.37" × 6" (110mm × 152mm)
Power Req.	5V Typical Voltage
	Typical Running Current Consumption 1.5A
	Typical 5 Volts @ 1.5A including SoM & USB
	(Note: up to 1.0A is required if USB Host is providing power to USB devices.)
Environment	0 - 70 C Operating Temperature [optional -40 to +85C]
	90% Upper Operating Humidity



*System on Module (SoM) Module not included

Carrier Board Options

PRODUCT #	DESCRIPTION
SoM-150ES-000	Standard Carrier Board with PLD
SoM-150ES-007	Bare-Bones Carrier Board without PLD
SoM-150ES-031	Deluxe Carrier with PLD, A/D, D/A, Audio

Optional Accessories

PRODUCT #	POWER SUPPLY
PER-ENC-00007	SOM-150 Steel MicroBox Chassis
PER-PWR-00041	Brick 30W w/ HDD & FDD connector +5/+12 VDC
PER-PWR-00032	5V @ 2.5A Power supply (110V @ 60 Hz US)
PER-PWR-00033	5V @ 3.2A Power supply (100-220V @ 47-63 Hz Intl.)

PRODUCT #	KEYPADS
E020-25	12 Key Membrane Telephone Style Keypad
E020-21	16 KEY Membrane HEX Style Keypad

PRODUCT #	TERMINAL BOARDS
PCD-3920	20-pin Wire Screw Terminal Block, with Flat Cable
PCD-3950	50-pin Wire Screw Terminal Block, with Flat Cable

PRODUCT #	DISPLAYS
E020-30	20 Char. X 2 Line LCD Display
E020-31	20 Char. X 2 Line LCD Backlit Display
E020-34	20 Char. X 2 line VF Display
E020-32	20 char. X 4 line LCD
E020-33	20 Char. X 4 line Backlit LCD (EOL, Limited Availability)