iPAC-9x25

Features

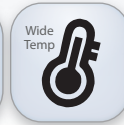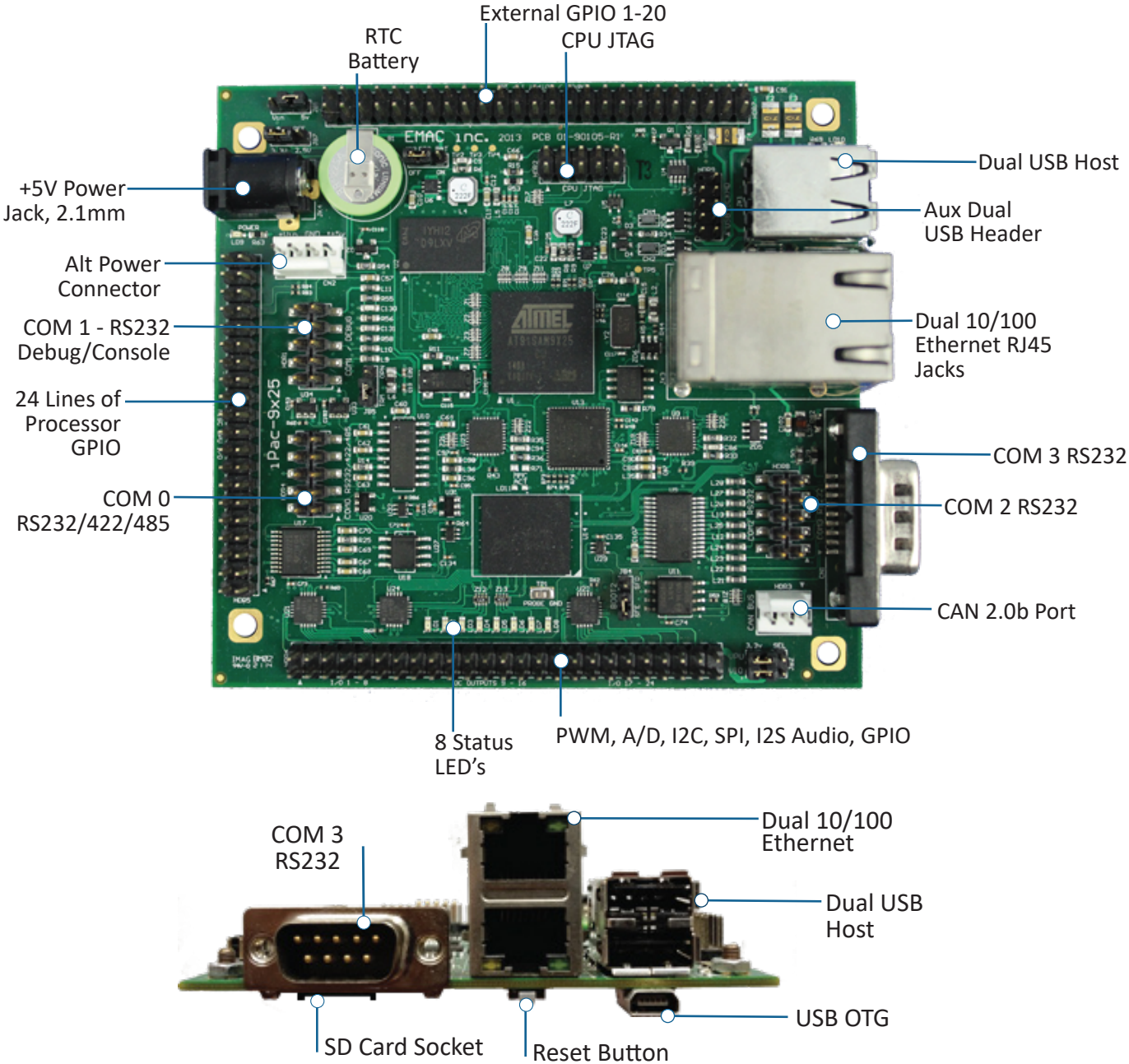- **Atmel AT91SAM9x25 400 Mhz Processor**
- **128 MB of DDR2 RAM**
- **4GB eMMC Flash, 16MB Serial Data Flash**
- **Ethernet, A/D, SPI, I2C, I2S PWM, CAN**
- **4x USB 2.0 Ports, 4x Serial Ports**
- **36x GPIO Lines, 8x Hi-Drive Outputs**
- **Wide Temperature -40° to +85° C**
- **Wi-Fi and Bluetooth (optional)**

Specifications

Processor	Embedded Atmel AT91SAM9X25 Processor
	400 MHz
Memory	128 MB DDR2 RAM
	4 GB eMMC Flash
	16 MB Serial Data Flash
I/O	20x General Purpose SAM9X25 Digital I/O Lines, 16x SPI I/O Expander Based Digital I/O
	8x High Drive Digital Outputs
	1x I2S Audio Port
	1x CAN 2.0b Port
	2x Ethernet 10/100 Base-T with RJ45
	2x USB 2.0 High Speed Host Port
	1x USB 2.0 Full Speed Host Port
	1x USB 2.0 High Speed OTG (Host/Device)
	4x Serial Ports (3x RS232, 1x RS232/422/485)
	1x SPI Port
	1x I2C Port
	Battery-Backed Real-Time Clock/Calendar
	Up to 4x 16-bit Pulse Width Modulation (PWM)
	WiFi and Bluetooth [Optional]
Analog	7x A/D Channels with 10-bit A/D Converter - 0 to 2.5V Range
Bus Expansion	None
OS	EMAC OE Embedded Linux
Dimensions	3.77" ×3.54" (95mm × 89mm; PC/104 footprint)
Power Req.	5 V
	Typical Running Current Consumption 500mA (with no USB devices connected)
Environment	-40° to + 85° C Industrial Wide Temperature
	90% Upper Operating Humidity

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RTC Battery

External GPIO 1-20
CPU JTAG

Dual USB Host

+5V Power Jack, 2.1mm

Aux Dual USB Header

Alt Power Connector

Dual 10/100 Ethernet RJ45 Jacks

COM 1 - RS232 Debug/Console

24 Lines of Processor GPIO

COM 3 RS232

COM 0 RS232/422/485

COM 2 RS232

CAN 2.0b Port

8 Status LED's

PWM, A/D, I2C, SPI, I2S Audio, GPIO

COM 3 RS232

Dual 10/100 Ethernet

Dual USB Host

USB OTG

SD Card Socket

Reset Button

Ordering Information

PRODUCT #	CPU	MEMORY	SERIAL	GPIO	USB	ANALOG	LAN	TEMPERATURE
IPAC-9X25-000	Atmel AT91SAM9X25 400 MHz	128MB DDR2 4GB eMMC 16MB Serial Flash	4x	44x	2x HS Host 1x FS Host 1x HS OTG	7x 10-Bit A/D Channels	2x 10/100 Base-T with RJ45	-40° to + 85° C

Optional Accessories

PRODUCT #	POWER SUPPLY
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 #	TERMINAL BOARDS
PCD-39E00-000	Screw Terminal Board Kit w/40 & 50 pin connection cables
PCD-3950	50-pin Wire Screw Terminal Block, with Flat Cable

*Requires Qty. 2 Terminal Boards to utilize all GPIO

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