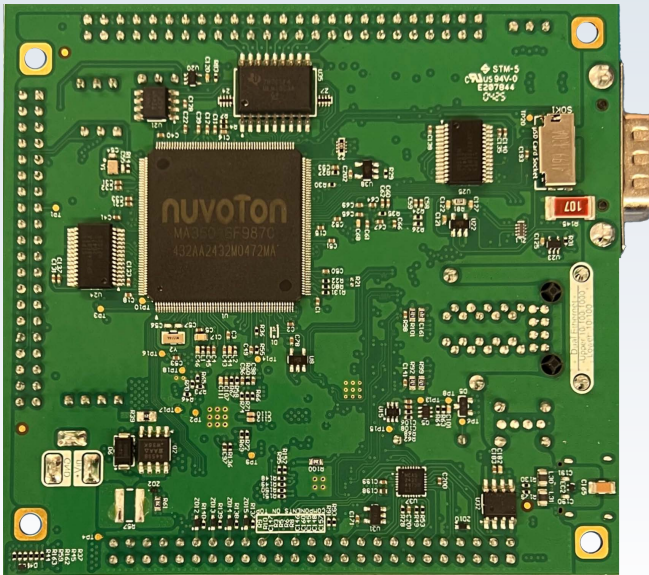




Features

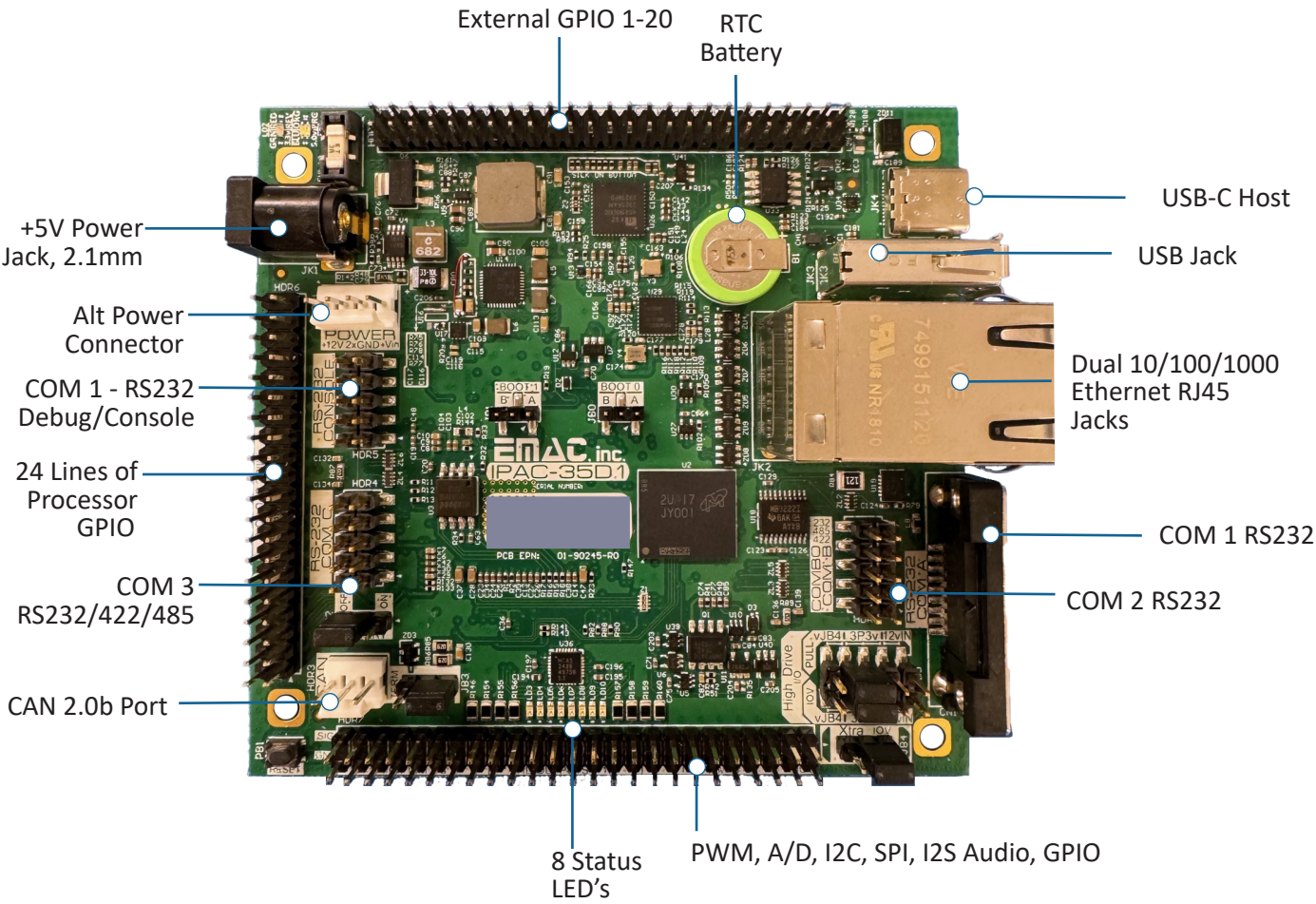
- NuvoTon Dual 64-bit ARM Cortex A35 800MHz
- Additional 180Mhz Cortex M4 RT Processor
- 4GB of eMMC Flash & 512MB of DDR3L RAM
- Dual Ethernet (1x 1000 BaseT & 1x 100 BaseT)
- 36x GPIOs & 8 High Drive Outs
- 3x Serial RS232 Ports & 1 RS485 Port
- 2x High Speed USB 2.0 Ports
- Micro SD Card Socket
- Multiple A/D, SPI, I2C, I2S & CAN Ports



Specifications

Processor	NuvoTon NuMicro® MA35D1 Dual ARM Cortex A35 800MHz & 180Mhz Cortex M4 Processor 800 Mhz & 180MHz Cortex M4 RT Processor
Memory	4GB of eMMC Flash 16MB of Serial Data Flash 512MB of DDR3L RAM
IO	1x RS232 serial DB9 port with RTS/CTS handshake 2x RS232 serial ports with RTS/CTS handshake (10 pin header) 1x RS232/485 serial port with RTS/CTS handshake (10 pin header) 1x USB 2.0 High speed Host port (Type C; no USB Port Control) 1x USB 2.0 High speed OTG (Type A) 1x 10/100/1000 BaseT Ethernet 1x 10/100 BaseT Ethernet 1x CAN Port 1x I2S External Port 1x External I2C & 1x SPI External Port 32x General Purpose Digital I/O (3.3V/5V Tolerant) Lines 4x General Purpose Processor Digital (3.3V) I/O lines 8x High Drive Digital Outputs (Open Collect; 500mA Sink) External Reset Button provision
Analog	4x channels of 12-bit A/D (0 to 2.5V) 32x 8-bit PWM Channels (shared with GPIOs)
Video	none
Dimensions	96 mm x 90 mm / 3.77" x 3.54"
Power Req.	+5 volt board input voltage required
Environment	Temperature Range: -40 to +85°C





Ordering Information

Product #	CPU	Memory	Serial	GPIO /PWM	USB	Analog	LAN	CAN	Temperature
IPAC-35D1-000	NuvoTon Dual 64-bit ARM A35 800MHz	512MB DDR3 4GB eMMC 16MB Serial Flash	3x RS232 1x 232/485	44x /32x	USB 2.0 1x Type A 1x Type C	8x 10-bit A/D 2x PWM	1x 1G 1x 100 BaseT	1x	-40° to + 85°C

Optional Accessories

PRODUCT #	POWER SUPPLY	PRODUCT #	TERMINAL BOARDS
PER-PWR-00032	5V @ 2.5A Power supply (110V @ 60 Hz US)	PCD-39E00-000	Screw Terminal Board Kit w/40 & 50 pin connection cables
PER-PWR-00033	5V @ 3.2A Power supply (100-220V @ 47-63 Hz Intl.)	PCD-3950	50-pin Wire Screw Terminal Block, with Flat Cable

*Requires Qty. 2 Terminal Boards to utilize all GPIO