

EposMotelll Expasion Boards

This is a list of EposMotelll's Expasion Boards, there are status information, key electronic components and link to board's full information (for finished boards).

[EposMotelll Expasion Boards Outputs Pins List](#)

JTAG Board

- Status: preliminary layout tested, waiting prototype batch fabrication.
- Key components:
 - Connector Header 20 Positions .100 pitch (JTAG 20 ARM).
 - 2x Connector Header .100 pitch.
 - 6 pins Connector Header for UART0 (VCC, GND, TX, RX, CTS and RTS).
- Projects: EposMotelll
- Board's full information: board finished, writing page about the connections.

IR Remote Controller / Air Conditioner Controller Board

- Status: board finished, waiting for prototype PCB batch.
- Key components:
 - SN74HC367 - Buffer and Line Drivers with 3-state outputs.
 - TSAL6200 - InfraRed LED.
 - TSOP58438 - InfraRed Receiver.
 - 8 pin expansion I/O for keypad.
- Projects: EposMotelll, SmartBuilding
- Full information: board finished, writing board details page.

Serial Communication Board

- Status: circuit requirements specification
- Key components (not concluded):
 - SPI to CAN IC (MCP2515);
 - CAN Drivers IC;
 - LIN Physical Interface (SN65HVDA100-Q1);
 - UART to EIA232 IC (TRS3221);
 - UART to EIA485 IC (MAX14853).
- Projects: EposMotelll, Electric Kart
- Full information: board not finished.

Data Logger Board

- Status: circuit requirements specification
- Key components (not concluded):
 - CPLD IC;
 - Flash Memory IC.
- Projects: Torsional vibration wireless monitoring
- Full information: board not finished.

Battery Monitor Board

- Status: prototype fabricated, not fully tested.
- Key components:
 - LTC2943 IC: Multicell Battery Gas Gauge;

- (2x) Cold-Junction Compensated Thermocouple-to-Digital Converter
- Projects: Hidrologic Station.
- Full information: board not finished.

LiPo Battery Monitor Board

- Status: circuit requirements specification
- Key components (not concluded):
 - LiPo Battery Monitor IC;
- Projects: Quadcopter.
- Full information: board not finished.

Load Cell Signal Conditioning Board

- Status: circuit requirements specification
- Key components (not concluded):
 - HX711 IC: 24 bit analog-to-digital converter (ADC) for weigh scales.
- Projects: Bee Keeping Monitor.
- Full information: board not finished.