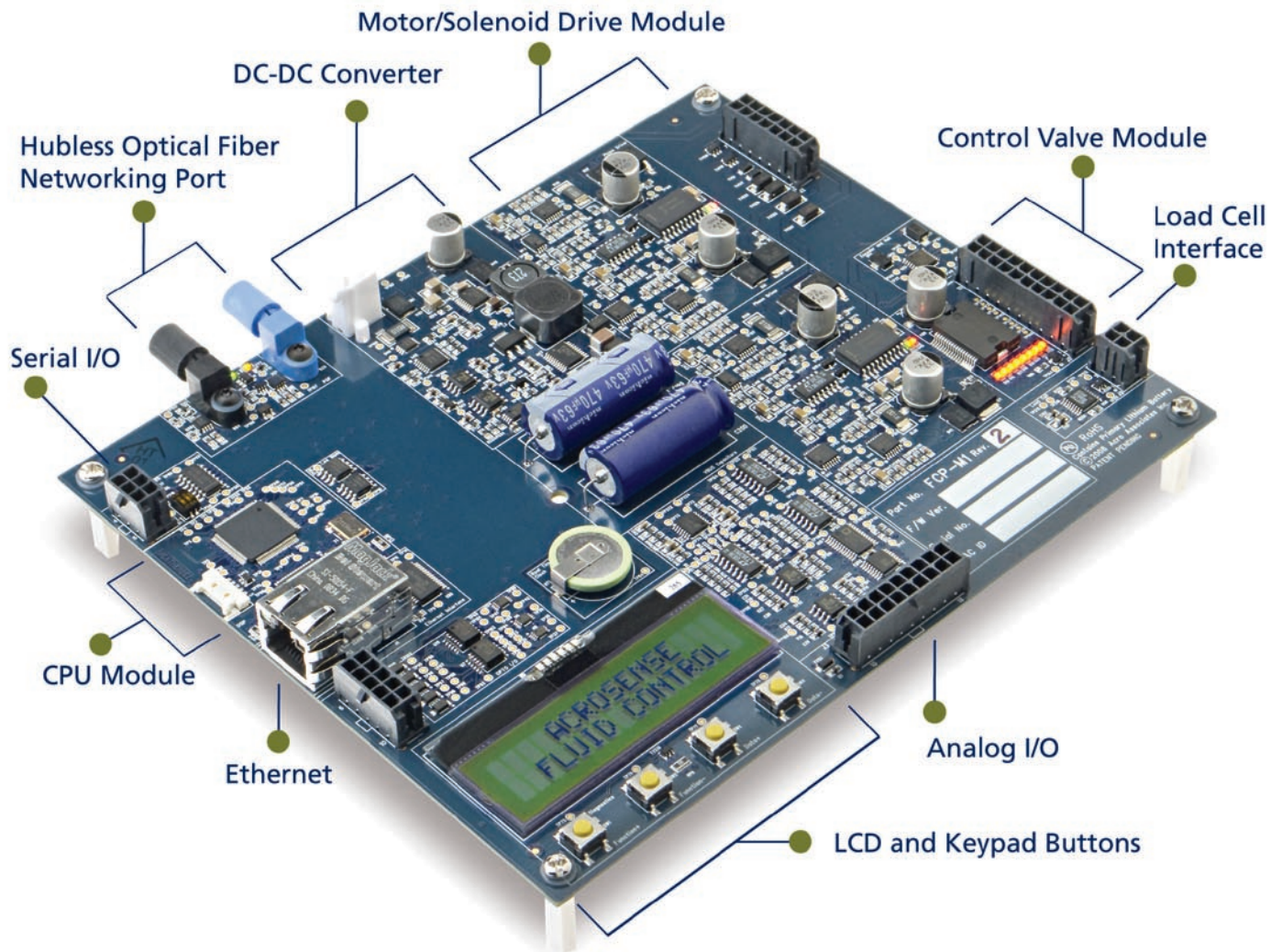


# Acrosense™ Fluid Control Platform

Acro's Acrosense™ Fluid Control Platform offers engineers the ability to quickly design, prototype and integrate fluid components used for developing medical device and bioprocessing systems. Our patent-pending technology consists of several preconfigured boards that enable basic to high-level integration of common medical or bioprocessing grade components. Pumps, motors, pinch valves, actuators and feedback devices can now be easily combined into a networked fluid control system without lengthy development time.



Each module can be used in a standalone environment, where one or more components are powered and controlled, or as part of a larger complex system.

Acrosense™ Fluid Control Platform offers flexibility, performance and scalability that can streamline your system development needs.

## Supported Components Include

- Solenoid actuators
- Solenoid or pneumatic pinch valves
- Pumps (peristaltic, gear, centrifugal, diaphragm, membrane)
- Motors (brushed, brushless, stepper)
- Sensors (pressure, flow, temperature, load cell, fluid level, blood and bubble detect)
- Encoders
- Serial or Ethernet networking

## Features

- Power efficient solenoid driver that implements improved adaptive pulse and hold methods for power management
- Electronic noise damping that quiets solenoid pinch valve operation
- Sensorless position sensing for pinch valves and tube detection
- On board calibration routines for diagnostic monitoring, reporting and data storage/logging
- Built in LCD and interface buttons for easy system diagnostic determination
- Modular, scalable design that allows multiple modules to be interconnected for additional feature or system capabilities
- Direct support for brushless DC based pump and stepper motor actuators
- Operation from 12V DC battery
- Compact footprint
- CE, FCC, RoHS compliant
- Modular, scalable design that allows multiple modules to be interconnected for additional system capabilities

## Configurations Offered

- M = full featured board that supports pumps, motors, solenoid pinch valves, sensors and electronic actuators
- A = solenoid pinch valve driver/controller that offers PWM (pulse width modulation) power management, multiple sensing feedback and noise damping for one or more valves
- B = pump and motor driver/controller (coming soon) that offers the ability to integrate one or more units



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