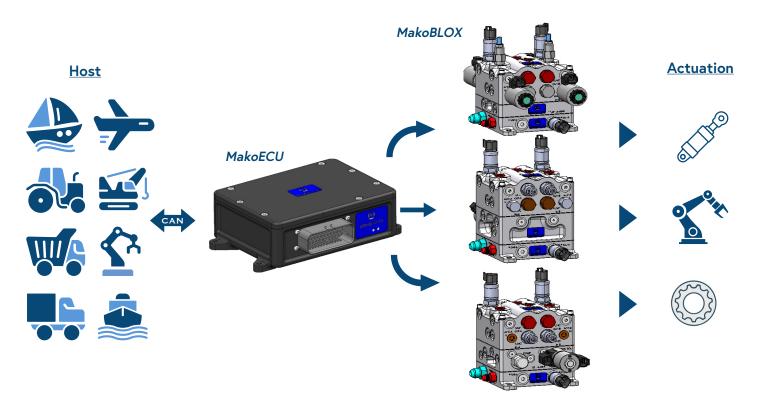


Introducing the MakoECU + MakoBlox



Mako Hydraulics is a modular, rapid-development platform designed to streamline the design, testing, validation, and deployment of hydraulic motion control circuits. At its core are two key components:



Together, they *enable rapid prototyping* and *efficient evaluation* of a wide range of standard hydraulic circuit configurations. Whether you're building new systems, validating existing ones, or scaling current solutions, **Mako Hydraulics** simplifies the hydraulic system development process—making it **faster**, **more intuitive**, and **more efficient**.

Easy - Flexible - Fast - Smart - Safe - Adaptable

• Designed to support the most common and proven control circuits

- Design an entire hydraulic system from a set of MakoBlox
 - Up and testing in under 4 weeks
 - Integrated real world hydraulic control best practices
 - Functional safety and diagnostics built-in
- Test numerous circuit options and control architectures



MakoECU

An ECU designed for hydraulic control

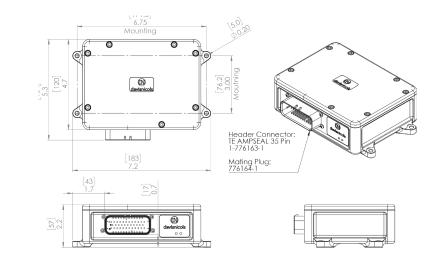
The MakoECU is a CAN based IO module intended to be used with the **Mako Hydraulics** development system. Our module comes preloaded with precision-tuned software designed to seamlessly control Mako Hydraulics-supported circuits.

Key Features

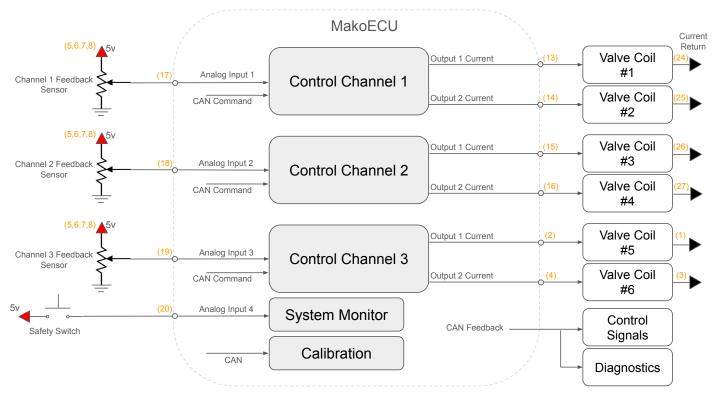
4 analog inputs (0-5v, 12 bit) 6 proportional current outputs (0 to 1.2A) 3 closed loop control channels 1 CAN 2.0b bus 24 VDC 35-pin Ampseal connector IP67 rated enclosure

Key Functions

Mako Hydraulics system controller Valve driver module Generic CAN based IO module



MakoECU Application - Static Input/Output Assignments



MakoBLOX

A modular hydraulic manifold development system

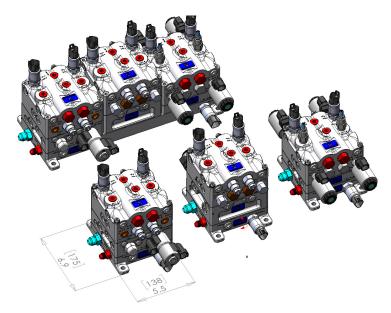
Engineered to combine the compact form factor and minimal leak paths typically found in custom manifolds, while providing the flexibility to independently configure control circuits, functions and hardware safety, and energy efficiency requirements.

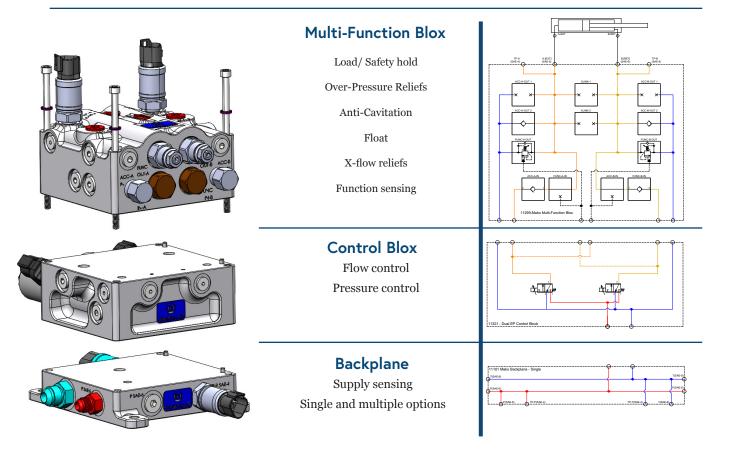
Key Features

Layered modular manifold concept Configures quickly 25 or more circuits supported with 5 MakoBLOX Supports common motion control valves MakoBLOX components include: Multi-funtion BLOX Valve control BLOX 1 and 3 station backplane 3,000 PSI working pressure 5,000 PSI optional SAE port on all system interfaces

Applications

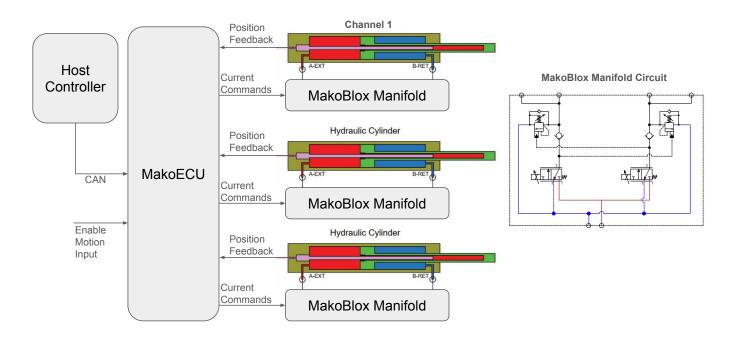
Mobile equipment Test rig development HIL/SIL/MIL testing



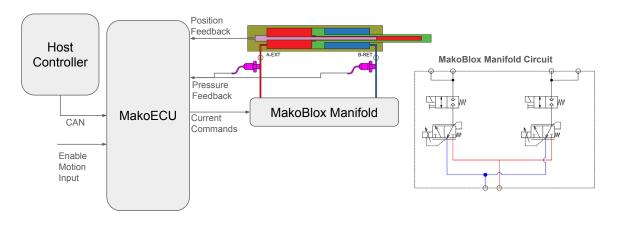


Mako Hydraulics Use Case

3-Channel Loop Position Control



1-Channel Position Force Control with Actuated Locking Valves



Mako Hydraulics by DavisNicols LLC www.mako-hydraulics.com

> System Inquiries: info@mako-hydraulics.com

