

Concept, design and integration of electronics and mechatronic systems



electronics-lis



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What is IMCU ?



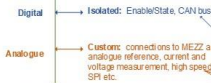
dSpace, Gail, PMAC, VME's boards, NI, IMCU as master, EtherCat (optional)

MEZZanine (custom)
Specific for given application interface as Resolver, LVDT, high resolution ADC, analogue isolation etc.

PowerAmplifier(s)
(standard or custom)
Linear (6-40V/150V), Brushed, brushless, stepper (4x 7A@50V)

Power interface (optional) customising digital isolated interface to power amplifier, current and voltage measurement, protections, configuration, adjustment (fixed or digital by I2C)

MAIN (common for all applications)
DSP (fix e point), programmable CPLD, CAN bus, USB/RS232, Enable/State, SPI, I2C, Digital I/O



24 x digital I/O applied to interface Resolver, LVDT, digital I/O, high speed SPI, I2C hall sensors etc.

7 x power pins, +Vs, 4 x actuator's outputs

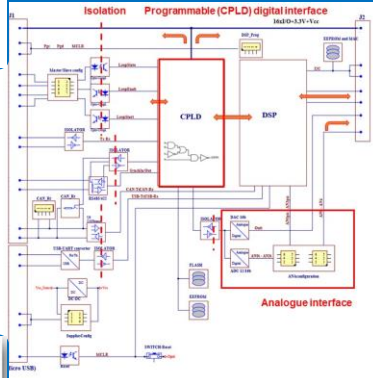


Isolated: USB/RS232

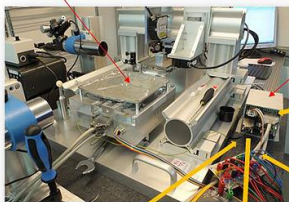
Development (C compiler & IDE), Matlab/Simulink direct programming & debugging



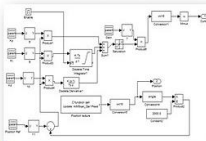
J9 (Micro USB)



Mechanism to be calibrated



2 x IMCU, PSU Simulink@ (direct programming)



HTML Micro server to send commands



Test interface (LabView@)

