MOTOROLA
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digital dna™

Analog

ATTACH SYSTEM SOLUTIONS FROM MOTOROLA: ANALOG

OVERVIEW

Motorola's Attach System Solutions is a system approach to designing with Motorola's core products. The idea is simple. Whatever target application you're designing, Motorola's attach products, including our robust analog, sensor, security and timing devices, can help you reduce system development time, lower overall system costs, simplify overall system design and ultimately, speed your time-to-market.

In the chart below, you can see at a glance specific analog products that can be designed with Motorola's controllers and processors into your end solutions. Use this diagram as a tool to help you "attach" relevant analog products to our core products.

ANALOG

Core Product	Attach Device													
	MC33389	MC33394	MC33689	MC33701	MC33702	MC33703	MC33889	MC33989	MC33997	MC33998	MC33794 E-field	MC33388 CAN	MC33390 J1850	MC33399 LIN
8-bit MCU														
MC68HC908	●		●				●	●			●	●	●	●
16-bit MCU														
MC9S12	●		●				●	●			●	●	●	●
MC68HC12	●		●				●	●			●	●	●	●
16-bit DSP														
DSP56F8xx				●					●		●			●
DSP5685x				●					●					●
24-bit DSP														
DSP563xx				●					●					●
32-bit DSP														
MSC810x				●										●
32-bit Controllers/ ColdFire®														
MCF5xxx									●			●	●	●
PowerPC™ ISA														
MPC5xx		●							●		●	●	●	●
MPC74xx				●										●
PowerQUICC™														
MPC8xx				●										●
MPC82xx					●									● ●
MPC85xx						●								●

The PowerQUICC Family contains a PowerPC core.

The generic motor control system diagram below is one example of the system diagrams available for analog products. For more information about Motorola's analog IC solutions and for more examples of analog system diagrams, visit the Web sites listed in the Learn More section below.

MOTOR CONTROL GENERIC SYSTEM DIAGRAM

33389	33186
33394	33285
33689	33286
33701	33289
33702	33385
33703	33395
33889	33486
33989	33880
33997	33882
33998	33883
	33886
	33887
	33895

33290
33388
33390
33399
33790
33897
33990

Processor
Power
Supply

Inter-Module
Communication

SPI or Parallel
Control

Power IC

Physical Layer
Transceivers

Power

MCU
or
DSP

Rotor Position
(optional)

Motor

System Input

Sensors and Contact
Monitors

Feedback

Sensors and Contact
Monitors

Mech
Assy

33287
33793
33794
33884
33993

33287
33793
33794
33884
33993

■ *Motorola Solutions Available*

BENEFITS

- Expand system possibilities and capabilities
- Short system development time that helps speed time-to-market
- Low overall system costs
- Cost-effective system designs
- Reduce board space
- Simplifies overall system design
- Tailored for Motorola's controllers and processors

LEARN MORE

For more information about Motorola's robust and reliable analog products, visit the following Web sites:

Applications:
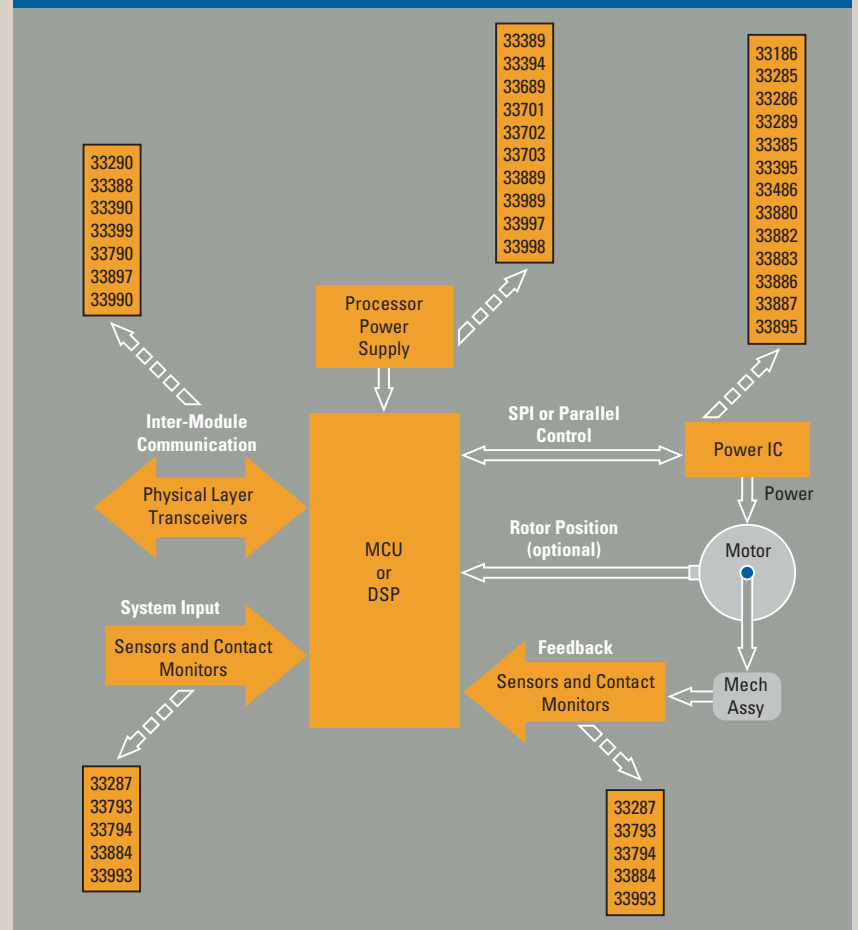**www.motorola.com/semiconductors/applications**

Tools:
www.motorola.com/semiconductors/tools

Analog Overview:
www.motorola.com/analog

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