

**QUICK REFERENCE
FOR MOTOROLA'S
CONTROLLER,
PROCESSOR, AND
ANALOG PRODUCTS**

Controller	Power Management			Communication
8-Bit	Analog Product	Integrated Physical Layer	Main Characteristic	Analog Physical Layer Product
MC68HC(9)08AZ	MC33389	LS CAN	Protected Dual Regulator, Window Watchdog, Reset, Interrupt, Wake-Ups, SPI, CAN Transceiver	MC33388 – LS CAN MC33399 – LIN ¹
	MC33889	LS CAN	2x Regulator, High-Side Switched Power, LS CAN, SPI, Wake-Up Inputs, Window Watchdog, Reset, Interrupt	
	MC33989	HS CAN	2x Regulator, High-Side Switched Power, SPI, Wake-Up Inputs, Window Watchdog, Interrupt, CAN Transceiver	
MC68HC(9)08AB/AS	MC33689	LIN ¹	5 V Regulator + 3 High-Side Switches, Fully Protected, Pre-Warning, Window Watchdog, SPI, Current Sense Amplifiers	MC33390 – J1850 MC33990 – J1850 MC33399 – LIN ¹
MC68HC(9)08Gx/Kx MC68HC(9)08Jx/Lx/Sx	MC33689	LIN ¹	5 V Regulator + 3 High-Side Switches, Fully Protected, Pre-Warning, Window Watchdog, SPI, Current Sense Amplifiers	MC33399 – LIN ¹

Controller	Power Management			Communication
16-Bit	Analog Product	Integrated Physical Layer	Main Characteristic	Analog Physical Layer Product
MC9S12Dx/Hx 68HC(9)12Dx ² 68HC(9)12BCx	MC33389	LS CAN	Protected Dual Regulator, Window Watchdog, Reset, Interrupt, Wake-Ups, SPI, CAN Transceiver	MC33388 – LS CAN MC33399 – LIN ¹
	MC33889	LS CAN	2x Regulator, High-Side Switched Power, LS CAN, SPI, Wake-Up Inputs, Window Watchdog, Reset, Interrupt	
	MC33989	HS CAN	2x Regulator, High-Side Switched Power, SPI, Wake-Up Inputs, Window Watchdog, Interrupt, CAN Transceiver	
68HC812Ax 68HC912BDx 68HC12BE32 MC9S12Ax	MC33689	LIN ¹	5 V Regulator + 3 High-Side Switches, Fully Protected, Pre-Warning, Window Watchdog, SPI, Current Sense Amplifiers	MC33399 – LIN ¹
68HC912B32	MC33689	LIN ¹	5 V Regulator + 3 High-Side Switches, Fully Protected, Pre-Warning, Window Watchdog, SPI, Current Sense Amplifiers	MC33390 – J1850 MC33990 – J1850

Controller/Processor	Power Management			Communication
ColdFire®	Analog Product	Integrated Physical Layer	Main Characteristic	Analog Physical Layer Product
MC5xxx	MC33997	n/a	5.0 V Sensorless Current Mode Buck + 3.3 V Linear Regulator, 3.3 V Standby, Reset and Power-ON Reset	M33399 – LIN ¹

**For More Information On This Product,
Go to: www.freescale.com**

Freescale Semiconductor, Inc.

Controller	Power Management			Communication
PowerPC® Instruction Set Architecture	Analog Product	Integrated Physical Layer	Main Characteristic	Analog Physical Layer Product
MPC5xx (with CAN)	MC33394	HS CAN	Step-Up/Down Pre-Regulator, 8x Voltage Outputs, SPI, High-Speed CAN Transceiver with Wake-Up Function	MC33399 – LIN ¹
MPC55x	MC33997	n/a	5.0 V Sensorless Current Mode Buck + 3.3 V Linear Regulator, 3.3 V Standby, Reset and Power-ON Reset	MC33399 – LIN ¹
MPC56x	MC33998	n/a	5.0 V Sensorless Current Mode Buck + 2.6 V Linear Regulator, 2.6 V Standby, Reset and Power-ON Reset	MC33399 – LIN ¹

Controller/Processor	Power Management			Communication
Hybrid	Analog Product	Integrated Physical Layer	Main Characteristic	Analog Physical Layer Product
DSP56301/03/05/09/62//64/66 DSP56F801/02/03/05/07	MC33997	n/a	5.0 V Sensorless Current Mode Buck + 3.3 V Linear Regulator, 3.3 V Standby, Reset and Power-ON Reset	MC33399 – LIN ¹
DSP56311/367/L307 DSP56F826/27 DSP5685x	MC3370x	n/a	Adjustable Synchronous and Linear Regulators, Voltage Margining, Adjustable PWM Frequency, Resets	MC33399 – LIN ¹

Processor	Power Management			Power Interface
PowerQUICC™	Analog Product	Integrated Physical Layer	Main Characteristic	Analog Physical Layer Product
MPC860/862/823 MPC850/855T/857T	MC33701	I ² C™ Interface	Adjustable Synchronous and Linear Regulators, Voltage Margining, Adjustable PWM Frequency, Resets	MC33652 - Hot swap MC33653 - Hot swap
MPC8250/8255 MPC8260/8264/8266	MC33702	I ² C Interface	Adjustable Synchronous and Linear Regulators, Voltage Margining, Adjustable PWM Frequency, Resets	MC33652 - Hot swap MC33653 - Hot swap
MPC8540/8550/8560	MC33703	I ² C Interface	Adjustable Synchronous and Linear Regulators, Voltage Margining, Adjustable PWM Frequency, Resets	MC33652 - Hot swap MC33653 - Hot swap

Processor	Power Management			Communication
Security	Analog Product	Integrated Physical Layer	Main Characteristic	Analog Physical Layer Product
MPC180/190	MC33702	n/a	Adjustable Synchronous and Linear Regulators, Voltage Margining, Adjustable PWM Frequency, Resets	M33399 – LIN ¹

NOTES:

1. If application also uses LIN network.
2. Check oscillator start and reset duration compatibility.

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