

Product Information

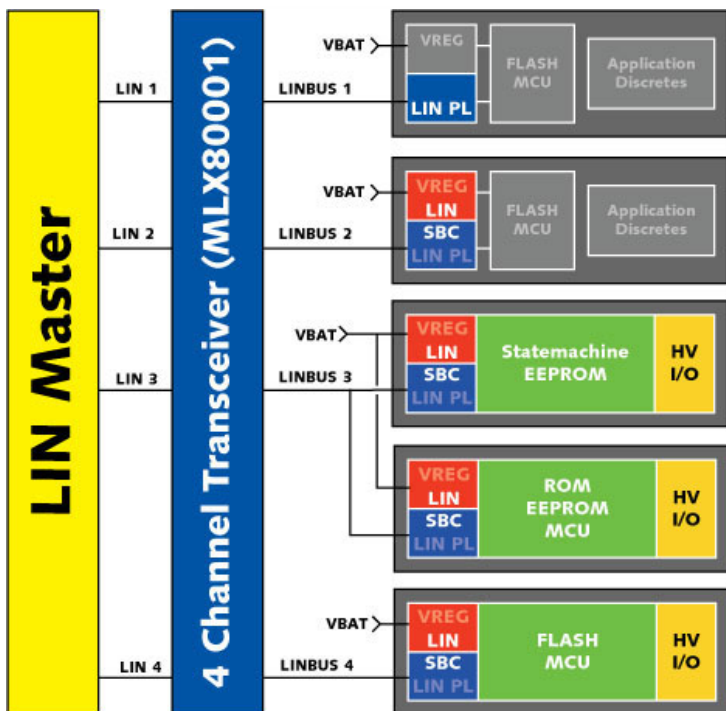
Melexis *lin* Quick Reference

LIN Transceivers and System Basis Chips (SBC)

As a **leading supplier of LIN components** Melexis continuously expands its LIN portfolio in line with the demands of the fast changing demands in vehicle architecture. This **quick reference** will allow you to find the suitable LIN transceiver or SBC for your LIN application.

All Melexis LIN components are designed and qualified to meet the most stringent EME and ESD specifications, and are in production at all major car manufacturer.

Be sure to check out the Melexis website for fully integrated application specific LIN slaves. These ASSPS include the LIN protocol handler and application specific periphery for minimum BOM cost, and fast system design time.



Typical Application

- **Multi LIN Transceiver** - MLX80001 - for LIN master that control multiple LIN busses - typically Body Control Modules
- **LIN Transceiver** - TH8080/82 - Single channel master or high current slave applications
- **System Basis ICs** - TH8062/65/66 - Mainly slave applications like intelligent, complex sensors (rainsensor, air quality,...), switch modules, ... Additional watchdog for increased safety level
- **Smart LIN ASSP** - MLX80103 - LIN switch slave for switch modules in the door, steering wheel seat, dashboard, roof,...
- **LIN ASICs** like HVAC flap, headlamp AFS, ...
- **ASSP** - MLX81100 - DC motor control and MLX81200 - BLDC motor control for Wiper, seat positioning, steering wheel lock, window lifter, blower,...



Small things make a big difference.

Automotive ICs

Hall ICs

Intelligent Drivers and Actuators

BUS ICs

Silicon MEMS

CMOS Imaging

Bus ICs

IR Temperature

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		Transceiver			System Basis Chip			
Product		TH8080	TH8082	MLX80001	TH8061	TH8062	TH8065	TH8066
# LIN Transceiver		1	1	4	1	1	1	1
LIN Standard	1.3	yes	yes	yes	yes	yes	yes	yes
	2.0	yes	yes	yes	yes	yes	yes	yes
	J2602	yes	yes	yes	yes	yes	yes	yes
Operating Voltage (V)	min	7	7	7	5.5	6	6	6
	max	18	18	18	18	18	18	18
Operating Temperature (°C)	min	-40	-40	-40	-40	-40	-40	-40
	max	125	125	125	125	125	125	125
Standby Current (µA)		24	6.5	20	35	15	15	15
INH Control		yes	yes	yes	n.a.	n.a.	n.a.	n.a.
Low Slew Rate Mode		no	no	yes	no	yes	yes	yes
IO voltage		5V	5V	5V/3.3V	5V	5V	5V	5V
Voltage Regulator	Voltage				5V	5V	5V	5V
	Current	no	no	no	50mA	70mA	70mA	70mA + ext. Trans
Reset Output		no	no	no	yes	yes	yes	yes
POR Time		n.a.	n.a.	n.a.	100ms	4..30ms	4..30ms	4..30ms
Watchdog		no	no	no	no	no	Yes (analog)	Yes (Window)
Package		SO8	SO8	MLF5x5	SO8	SO8 opt. MLF4x4	SO14	SO14
Status		Production	Production	Final Samples	Not recomm. for new Designs	Production	Production	Samples March 2007

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