Product Advisor (PA)

Subject: Datasheet Specification Change for Intersil Digital PMBus Modules
Publication Date: 3/16/2016
Effective Date: 3/16/2016

Revision Description:
Initial Release

Description of Change:
This notice is to inform you that Intersil has updated the datasheets for the Digital PMBus Modules to include additional PMBus guidelines.

Reason for Change:
The new section titled "PMBus Use Guidelines" provides a better understanding of the device application with important information associated with sending repeated commands to the same device. There should be a 2ms delay between repeated READ commands and 5ms delay between sending any other commands to the same device. Insufficient delays between commands may cause communication errors with the device. The change aligns the data sheet with the existing product characteristics. The new section is included in each datasheet as highlighted on the next page, i.e. Appendix B. The updated data sheet are available on the Intersil web site at:

Intersil Product families	Datasheet link
ISL8270M*	http://www.intersil.com/content/dam/intersil/documents/isl8/isl8270m.pdf
ISL8271M*	http://www.intersil.com/content/dam/intersil/documents/isl8/isl8271m.pdf
ISL8272M*	http://www.intersil.com/content/dam/intersil/documents/isl8/isl8272m.pdf
ISL8273M*	http://www.intersil.com/content/dam/intersil/documents/isl8/isl8273m.pdf
ZL9006M*	http://www.intersil.com/content/dam/intersil/documents/zl90/zl9006m.pdf
ZL9010M*	http://www.intersil.com/content/dam/intersil/documents/zl90/zl9010m.pdf
ZL9023M*	Please contact your Intersil representative
ZL9025M*	Please contact your Intersil representative
ZL9030M*	Please contact your Intersil representative
ZL9101M*	http://www.intersil.com/content/dam/intersil/documents/zl91/zl9101m.pdf
ZL9117M*	http://www.intersil.com/content/dam/intersil/documents/zl91/zl9117m.pdf
ZL9122M*	Please contact your Intersil representative

Impact on fit, form, function, quality & reliability:
The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the devices.

Product Identification:
There have been no changes to the die/silicon or product itself. There will be no change in the external marking of the packaged parts.

Qualification status: Not required

Sample availability: 3/16/2016
Device material declaration: Available upon request

Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Intersil within 30 days of the publication date.

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: PCN-US@INTERSIL.COM	Europe: PCN-EU@INTERSIL.COM	Japan: PCN-JP@INTERSIL.COM	Asia Pac: PCN-APAC@INTERSIL.COM

Appendix A – Affected Products List
Appendix B – Datasheet update

Appendix A: Affected Products List

Product List

ISL8270MAIRZ	ZL9006MAIRZ-TS2490	ZL9025MAIRZ	ZL9101MIRZ-T	ZL9122MAIRZ-T
ISL8270MAIRZ-T	ZL9006MIRZ	ZL9025MAIRZ-T	ZL9117MAIRZ	ZL9122MBIRZ
ISL8271MAIRZ	ZL9006MIRZ-T	ZL9030MAIRZ	ZL9117MAIRZ-T	ZL9122MBIRZ-T
ISL8271MAIRZ-T	ZL9010MAIRZ	ZL9030MAIRZ-T	ZL9117MBIRZ	ZL9122MIRZ
ISL8272MAIRZ	ZL9010MAIRZ-T	ZL9101MAIRZ	ZL9117MBIRZ-T	ZL9122MIRZ-T
ISL8272MAIRZ-T	ZL9010MAIRZ-TS2490	ZL9101MAIRZ-T	ZL9117MIRZ	
ISL8273MAIRZ	ZL9010MIRZ	ZL9101MAIRZ-TS2490	ZL9117MIRZ-T	
ISL8273MAIRZ-T	ZL9010MIRZ-T	ZL9101MBIRZ	ZL9117MIRZ-TR5494	
ZL9006MAIRZ	ZL9023MAIRZ	ZL9101MBIRZ-T	ZL9117MIRZR5494	
ZL9006MAIRZ-T	ZL9023MAIRZ-T	ZL9101MIRZ	ZL9122MAIRZ	

Appendix B: Datasheet update

PMBus Use Guidelines

The PMBus is a powerful tool that allows the user to optimize circuit performance by configuring devices for their application. When configuring a device in a circuit, the device should be disabled whenever most settings are changed with PMBus commands. Some exceptions to this recommendation are OPERATION, ON_OFF_CONFIG, CLEAR_FAULTS, VOUT_COMMAND, VOUT_MARGIN_HIGH, VOUT_MARGIN_LOW, and ASCCR_CONFIG. While the device is enabled any command can be read. Many commands do not take effect until after the device has been re-enabled, hence the recommendation that commands that change device settings are written while the device is disabled.

When sending the STORE_DEFAULT_ALL, STORE_USER_ALL, RESTORE_DEFAULT_ALL, and RESTORE_USER_ALL commands, it is recommended that no other commands are sent to the device for 100ms after sending STORE or RESTORE commands.

In addition, there should be a 2ms delay between repeated READ commands sent to the same device. When sending any other command, a 5ms delay is recommended between repeated commands sent to the same device.