

Microsemi Corporation: CN18008

May 23, 2018

Customer Notification No: CN18008

Customer Advisory Notice (CAN)

Change Classification: Minor

Subject

SmartFusion2 and IGLOO2 Datasheet changes to be posted on Microsemi website on May 25, 2018.

Description

This change notification affects all SmartFusion2 and IGLOO2 military temperature grade and automotive T2 temperature grade devices. Minor updates to the SmartFusion2/IGLOO2 military and automotive T2 temperature grade datasheets have occurred.

Item Number	Description	Action Required by Customer
1	SPI timing specification update	Review timing
2	I/O weak pull-up/pull-down	Review the new values

CAN 18008.1 Description of Change

The MSS SPI ports 0 and 1 and the IGLOO2 HPMS SPI port 0 have updated timing specifications.

Reason for change: Timing specifications have been updated to accommodate faster SPI memory devices. No changes to silicon have occurred. This is only a clarification of the timing model at the pins.

Application impact: None.

CAN 18008.2 Description of Change

I/O weak pull-ups and pull-down maximum values have increased on average by 18%.

Reason for change: Specification clarification.

Application impact: Changing a weak pull-up by ~18% should have no effect on device performance or functionality. These weak pull-ups are traditionally used to pull up or down unconnected I/Os.

Qualification Data

No design or process changes to the device have occurred that would impact functionality or performance requiring qualification data.

Effected Parts List

The following table lists the effected part numbers and devices.

SmartFusion2		IGLOO2	
Leaded	Lead-Free	Leaded	Lead-Free
M2S010T-1FG484M	M2S010T-1FGG484M	M2GL010T-1FG484M	M2GL010T-1FGG484M
M2S025T-1FG484M	M2S025T-1FGG484M	M2GL025T-1FG484M	M2GL025T-1FGG484M
M2S050T-1FG484M	M2S050T-1FGG484M	M2GL050T-1FG484M	M2GL050T-1FGG484M
M2S060T-1FG484M	M2S060T-1FGG484M	M2GL060T-1FG484M	M2GL060T-1FGG484M
M2S090T-1FG484M	M2S090T-1FGG484M	M2GL090T-1FG484M	M2GL090T-1FGG484M
M2S150T-1FC1152M	M2S150T-1FCG1152M	M2GL150T-1FC1152M	M2GL150T-1FCG1152M
M2S010TS-1FG484M	M2S010TS-1FGG484M	M2GL010TS-1FG484M	M2GL010TS-1FGG484M
M2S025TS-1FG484M	M2S025TS-1FGG484M	M2GL025TS-1FG484M	M2GL025TS-1FGG484M
M2S050TS-1FG484M	M2S050TS-1FGG484M	M2GL050TS-1FG484M	M2GL050TS-1FGG484M
M2S060TS-1FG484M	M2S060TS-1FGG484M	M2GL060TS-1FG484M	M2GL060TS-1FGG484M
M2S090TS-1FG484M	M2S090TS-1FGG484M	M2GL090TS-1FG484M	M2GL090TS-1FGG484M
M2S150TS-1FC1152M	M2S150TS-1FCG1152M	M2GL150TS-1FC1152M	M2GL150TS-1FCG1152M
	M2S005S-1FGG484T2		M2GL005S-1FGG484T2
	M2S010TS-1FGG484T2		M2GL010TS-1FGG484T2
	M2S025TS-1FGG484T2		M2GL025TS-1FGG484T2
	M2S060TS-1FGG484T2		M2GL060TS-1FGG484T2
	M2S090TS-1FGG484T2		M2GL090TS-1FGG484T2
	M2S005S-1VFG256T2		M2GL005S-1VFG256T2
	M2S010TS-1VFG256T2		M2GL010TS-1VFG256T2
	M2S025TS-1VFG256T2		M2GL025TS-1VFG256T2
	M2S005S-1VFG400T2		M2GL005S-1VFG400T2
	M2S010TS-1VFG400T2		M2GL010TS-1VFG400T2
	M2S025TS-1VFG400T2		M2GL025TS-1VFG400T2
	M2S060TS-1VFG400T2		M2GL060TS-1VFG400T2
	M2S060TS-1FGG676T2		M2GL060TS-1FGG676T2
	M2S090TS-1FGG676T2		M2GL090TS-1FGG676T2

Regards,
 Microsemi Corporation

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