

Product Advisory Notice (PA)

Subject: Datasheet specification change for Listed Renesas ISL78600* and ISL78610* Products

Publication Date: 5/11/2018

Effective Date: 5/11/2018

Revision Description:

Initial Release

Description of Change:

This notice is to inform you that Renesas Electronics America Inc has updated ISL78600* and ISL78610* datasheet. The updates include changes to the following : -

#	Change details	From	To	Unit
1	Absolute Maximum Ratings (DIN, SCLK, CS, DOUT, DATA READY, COMMS SELECT n, TEMPREG, REF, V3P3, VCC, FAULT, COMMS RATE n, EN, VDDEXT).	4.1	5.5	V

Product List

ISL78600ANZ
ISL78600ANZ-T
ISL78610ANZ
ISL78610ANZ-T

Reason for Change:

The correction to the datasheet aligns the documentation with the product characteristics. Details regarding the change are contained on the following page. The product datasheet is available on the Renesas web site at:

#	Product	Website
1	ISL78600ANZ	https://www.intersil.com/content/dam/intersil/documents/isl7/isl78600.pdf
2	ISL78600ANZ-T	
3	ISL78610ANZ	https://www.intersil.com/content/dam/intersil/documents/isl7/isl78610.pdf
4	ISL78610ANZ-T	

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:

Product affected by this change is identifiable via Renesas's internal traceability system.

Qualification status: Not Applicable
Sample availability: 5/31/2018
Device material declaration: Available upon request

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

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

Appendix A - Affected datasheet (see attached)

ISL78600* datasheet

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Absolute Maximum Ratings	
Unless otherwise specified. With respect to VSS.	
BASE	-0.2V to 5.5V
DIN, SCLK, CS, DOUT, DATA READY, COMMS SELECT n, ExTn, TEMPREG, REF, V3P3, VCC, FAULT, COMMS RATE n, EN, VDDEXT	-0.2V to 4.1V
V2P5	-0.2V to 2.9V
VBAT	-0.5V to 63V
Dh11, DLo1, Dh12, DLo2	-0.5V to (VBAT + 0.5V)
VC0	-0.5V to +9.0V
VC1	-0.5V to +18V
VC2	-0.5V to +18V
VC3	-0.5V to +27V
VC4	-0.5V to +27V
VC5	-0.5V to +36V
VC6	-0.5V to +36V
VC7	-0.5V to +45V
VC8	-0.5V to +45V
VC9	-0.5V to +54V
VC10	-0.5V to +63V
VC11	-0.5V to +63V
VC12	-0.5V to +63V
VCn (for n = 0 to 12)	-0.5 to VBAT + 0.5V
CBn (for n = 1 to 12)	-0.5 to VBAT + 0.5V
CBn (for n = 1 to 9)	V(VCn-1) - 0.5V to V(VCn-1) + 9V
CBn (for n = 10 to 12)	V(VCn) - 9V to V(VCn) + 0.5V
Current into VCn, VBAT, VSS (Latch-Up Test)	±100mA
ESD Rating	
Human Body Model (Tested per AECQ100-002)	2kV
Capacitive Discharge Model (Tested per AECQ100-011)	2kV
Latch-Up (Tested per AEC-Q100-004; Class 2, Level A)	100mA
NOTE: DOUT, DATA READY, and FAULT are digital outputs and should not be driven from external sources. V2P5, REF, TEMPREG and BASE are analog outputs and should not be driven from external sources.	

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Absolute Maximum Ratings	
Unless otherwise specified. With respect to VSS.	
BASE, DIN, SCLK, CS, DOUT, DATA READY, COMMS SELECT n, TEMPREG, REF, V3P3, VCC, FAULT, COMMS RATE n, EN, VDDEXT	-0.2V to 5.5V
ExTn	-0.2V to 4.1V
V2P5	-0.2V to 2.9V
VBAT	-0.5V to 63V
Dh11, DLo1, Dh12, DLo2	-0.5V to (VBAT + 0.5V)
VC0	-0.5V to +9.0V
VC1	-0.5V to +18V
VC2	-0.5V to +18V
VC3	-0.5V to +27V
VC4	-0.5V to +27V
VC5	-0.5V to +36V
VC6	-0.5V to +36V
VC7	-0.5V to +45V
VC8	-0.5V to +45V
VC9	-0.5V to +54V
VC10	-0.5V to +63V
VC11	-0.5V to +63V
VC12	-0.5V to +63V
VCn (for n = 0 to 12)	-0.5 to VBAT + 0.5V
CBn (for n = 1 to 12)	-0.5 to VBAT + 0.5V
CBn (for n = 1 to 9)	V(VCn-1) - 0.5V to V(VCn-1) + 9V
CBn (for n = 10 to 12)	V(VCn) - 9V to V(VCn) + 0.5V
Current into VCn, VBAT, VSS (Latch-Up Test)	±100mA
ESD Rating	
Human Body Model (Tested per AECQ100-002)	2kV
Capacitive Discharge Model (Tested per AECQ100-011)	2kV
Latch-Up (Tested per AEC-Q100-004; Class 2, Level A)	100mA
NOTE: DOUT, DATA READY, and FAULT are digital outputs and should not be driven from external sources. V2P5, REF, TEMPREG and BASE are analog outputs and should not be driven from external sources.	

ISL78610* datasheet

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Absolute Maximum Ratings		Unless otherwise specified. With respect to VSS.
BASE	.....	-0.2V to 5.5V
DIN, SCLK, CS, DOUT, DATA READY, COMMS SELECT n, ExTn, TEMPREG, REF, V3P3, VCC, FAULT, COMMS RATE n, EN, VDDEXT	.....	-0.2V to 4.1V
V2P5	.....	-0.2V to 2.9V
VBAT	.....	-0.5V to 63V
DHi1, DLo1, DHi2, DLo2	.....	-0.5V to (VBAT + 0.5V)
VC0	.....	-0.5V to +9.0V
VC1, VC2	.....	-0.5V to +18V
VC3, VC4	.....	-0.5V to +27V
VC5, VC6	.....	-0.5V to +36V
VC7, VC8	.....	-0.5V to +45V
VC9	.....	-0.5V to +54V
VC10, VC11, VC12	.....	-0.5V to +63V
VCn (for n = 0 to 12)	.....	-0.5 to VBAT +0.5V
CBn (for n = 1 to 12)	.....	-0.5 to VBAT +0.5V
CBn (for n = 1 to 9)	.....	V(VCn-1) -0.5V to V(VCn-1) +9V
CBn (for n = 10 to 12)	.....	V(VCn) -9V to V(VCn) +0.5V
Current into VCn, VBAT, VSS (Latch-Up Test)	.....	±100mA
ESD Rating		
Human Body Model (Tested per AECQ100-002)		2kV
Charged Device Model (Tested per AECQ100-011)		2kV
Latch-Up (Tested per AEC-Q100-004; Class 2, Level A)		100mA
NOTE: DOUT, DATA READY and FAULT are digital outputs and should not be driven from external sources. V2P5, REF, TEMPREG and BASE are analog outputs and should not be driven from external sources.		

Absolute Maximum Ratings		Unless otherwise specified. With respect to VSS.
BASE, DIN, SCLK, CS, DOUT, DATA READY, COMMS SELECT n, TEMPREG, REF, V3P3, VCC, FAULT, COMMS RATE n, EN, VDDEXT	-0.2V to 5.5V
ExTn	-0.2V to 4.1V
V2P5	-0.2V to 2.9V
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VC0	-0.5V to +9.0V
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VC3, VC4	-0.5V to +27V
VC5, VC6	-0.5V to +36V
VC7, VC8	-0.5V to +45V
VC9	-0.5V to +54V
VC10, VC11, VC12	-0.5V to +63V
VCn (for n = 0 to 12)	-0.5 to VBAT +0.5V
CBn (for n = 1 to 12)	-0.5 to VBAT +0.5V
CBn (for n = 1 to 9)	V(VCn-1) -0.5V to V(VCn-1) +9V
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Human Body Model (Tested per AECQ100-002)		2kV
Charged Device Model (Tested per AECQ100-011)		2kV
Latch-Up (Tested per AEC-Q100-004; Class 2, Level A)		100mA