



PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000811

Date: JUN-14-2022

P1/2

Semtech Corporation, 200 Flynn Road, Camarillo CA 93012

Change Details

Part Number(s) Affected: AVP1000-IBE3 AVP2000-IBE3 AVP2000T-IBE3 AVX100-IBE3 AVX200T-IBE3	Customer Part Number(s) Affected: <input checked="" type="checkbox"/> N/A
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Description, Purpose, and Effect of Change:

Due to global IC supply chain challenges, we are re-purposing two reserved balls on the AVP and AVX devices to support a different external clock generator IC. This change has no effect on existing designs and is only applicable to new designs that use the specified Renesas device instead of SiLabs. The silicon has not changed. The alternate Renesas clock chip can be used with the affected part numbers from firmware version 1.3.1.0 onwards.

Data sheets for AVP (PDS-061874) and AVX (PDS-061884) have been updated:

- 1) Data sheet ball out maps and ball descriptions for Renesas clock chip support.
 - A. Ball H3 RSVD_3 changed to CLK_MNG_FDEC_FB.
Clock Management Frequency Decrement Feedback input. This ball is only used for designs using the Renesas RC22504A200GNK clock chip. Connect directly to CLK_MNG_FDEC (ball AC16). For all other clock devices, this input is reserved and should be left unconnected.
 - B. Ball G1 RSVD_7 changed to CLK_MNG_FINC_FB.
Clock Management Frequency Increment Feedback input. This ball is only used for designs using the Renesas RC22504A200GNK clock chip. Connect directly to CLK_MNG_FINC (ball AB16). For all other clock devices, this input is reserved and should be left unconnected.
- 2) Transmission Distance
- 3) Ball Descriptions
- 4) AC Electrical Characteristics
- 5) Compression profiles
- 6) RGMII Tx Delay Block Diagrams
- 7) RGMII Rx Delay Block Diagrams

Change Classification	<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	Impact to Form, Fit, Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Impact to Data Sheet	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	New Revision or Date	6 <input type="checkbox"/> N/A

Impact to Performance, Characteristics or Reliability:

There is no impact to form, fit, function, performance, characteristics, or reliability.



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Implementation Date	JUN-14-2022	Work Week	25
Last Time Ship (LTS) <small>Of unchanged product</small>	N/A	Affecting Lot No. / Serial No. (SN)	N/A
Sample Availability	N/A	Qualification Report Availability	N/A

Supporting Documents for Change Validation/Attachments:

Product data sheets are available on the www.semtech.com product pages, through the mySemtech Document Portal, or by contacting your local Sales Representative.

Issuing Authority	
Semtech Business Unit:	Signal Integrity Product Group (SIP)
Semtech Contact Info:	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>Pedro Jr. Bernas pbernas@semtech.com (289) 856-9326 x1162</p> </div> <div style="width: 35%; text-align: center;">  </div> </div>
FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: http://www.semtech.com/contact/index.html#support	