

PRODUCT AND PROCESS CHANGE NOTIFICATION Generic Copy

ISSUE DATE:	11-Jul-2013
NOTIFICATION:	15545
TITLE:	UPDATE IN 8306 AND 8309 PINLIST
EFFECTIVE DATE:	09-Oct-2013

DEVICE(S)

	MPN
KCU8306CVMABDCA	
KCU8306SCVMABDCA	
KCU8309CVMADDCA	
KCU8309CVMAFDCA	
KCU8309CVMAGDCA	
KCU8309CVMAHFCA	
KCU8309CXVMAFDCA	
KCU8309CXVMAGDCA	
KCU8309CXVMAHFCA	
KCU8309VMAHFCA	
KSCU8306SVMABDCA	
MPC8306CVMABDCA	
MPC8306CVMACDCA	
MPC8306CVMADDCA	
MPC8306CVMAFDCA	
MPC8306SCVMABDCA	
MPC8306SCVMACDCA	
MPC8306SCVMADDCA	
MPC8306SCVMAFDCA	
MPC8306SVMABDCA	
MPC8306SVMACDCA	
MPC8306SVMADDCA	
MPC8306SVMAFDCA	
MPC8306VMABDCA	
MPC8306VMACDCA	
MPC8306VMADDCA	
MPC8306VMAFDCA	

MPC8309CVMADDCA
MPC8309CVMAFDCA
MPC8309CVMAGDCA
MPC8309CVMAHFCA
MPC8309CXVMAFDCA
MPC8309CXVMAGDCA
MPC8309CXVMAHFCA
MPC8309VMADDCA
MPC8309VMAFDCA
MPC8309VMAGDCA
MPC8309VMAHFCA
MPC8309XVMAFDCA
MPC8309XVMAGDCA
MPC8309XVMAHFCA
PPC8306CVMABDCA
PPC8306SCVMABDCA
PPC8309VMAHFCA

AFFECTED CHANGE CATEGORIES

DATASHEET

DESCRIPTION OF CHANGE

This PCN supports the pin list update in 8309/06 families Hardware Specification document. These updates will provide corrections to signal assignments, names and remove signals that have no value added to customer usage. While most of the impacts to the customer were minimal, it was noted that the signal assignments required a customer board revision.

1. <u>CIk13 – CIk14 Swap</u> This change is for the new customers, whose boards are under development. The customers, whose boards are in production, are aware of this change.

In 8309 H/W spec, CLK13 is shown at Y20 and CLK14 is shown at Y22.

HDLC2_TXCLK[CLK13]/ GPIO_16/QE_BRG_7/TDM2_TCK[CLK6]	Y20	Ю	OVDD	—
HDLC2_RXCLK[CLK14]/GPIO_17/TDM2_RCK [CLK5]/QE_BRG_8	Y22	Ю	OVDD	—

The signal assignment is changed to

HDLC2_TXCLK[CLK14]/ GPIO_16/QE_BRG_7/TDM2_TCK[CLK6]	Y20	Ю	OVDD	-

HDLC2_RXCLK[CLK13]/GPIO_17/TDM2_RCK	Y22	Ю	OVDD	I — I
[CLK5]/QE_BRG_8				

2. <u>Correction in Signal Name</u>: No impact on functionality. There is no need for board revision.

TSEC TMR TRIG1 should be replaced by FEC TMR TRIG1 TSEC_TMR_TRIG2 should be replaced by FEC_TMR_TRIG2 TSEC_TMR_CLK should be replaced by FEC_TMR_CLK TSEC TMR GCLK should be replaced by FEC TMR GCLK TSEC TMR PP1 should be replaced by FEC TMR PP1 TSEC TMR PP2 should be replaced by FEC TMR PP2 TSEC_TMR_PP3 should be replaced by FEC_TMR_PP3 TSEC TMR ALARM1 should be replaced by FEC TMR ALARM1 TSEC TMR ALARM2 should be replaced by FEC TMR ALARM2 FEC3_TMR_TX_ESFD should be replaced by FEC2_TMR_TX_ESFD FEC3 TMR RX ESFD should be replaced by FEC2 TMR RX ESFD

3. Removing Test and Hidden Signals from Pinlist : No impact on functionality. There is no need for board revision.

Following signals will no longer be part of 8309 pinlist:

- a. From BOOT ROM ADDR[2] through BOOT ROM ADDR[12]
- b. From BOOT ROM RDATA [0] through BOOT ROM RDATA [31]
- c. BOOT ROM MOD EN, BOOT ROM RWB, BOOT ROM XFR WAIT, BOOT ROM XFR ERR
- d. UC1 URM, UC2 URM, UC3 URM, UC5 URM, UC7 URM, URM TRIG
- e. ECID_TMODE IN
- f. TPR SYS AAD[0] through TPR SYS AAD[15]
- g. TPR SYS SYNC, TPR SYS DACK
- h. QE TRB 0, QE TRB 1 (removed from 8306 family pinlist too)
- i. PLLCZ CORE CLKIN
- j. JTAG BISE, JTAG PRPGPS, JTAG BISR TDO EN
- k. CLOCK_XLB_CLOCK_OUT
- I. PD XLB2MG DDR CLOCK

REASON FOR CHANGE

- 1. <u>Clk13 Clk14 Swap</u>: As per design, CLK13 should be connected to pin Y22 and CLK14 should be connected to pin Y20. Due to documentation error, the signals were swapped.
- 2. Correction in Signal Name: 8306 and 8309 device families use Fast Ethernet Controller (FEC). Several Ethernet pins are wrongly suffixed with TSEC.

Due to documentation error, FEC3 TMR TX ESFD and FEC3 TMR RX ESFD are mismarked and should be marked as FEC2 TMR TX ESFD and FEC2 TMR RX ESFD respectively.

3. Removing Test and Hidden Signals from Pinlist : Due to documentation error, these signals were shown in revision 1 of the hardware specifications.

ANTICIPATED IMPACT OF PRODUCT CHANGE(FORM, FIT, FUNCTION, OR RELIABILITY)

1. <u>Clk13 – Clk14 Swap</u> Customers who are in production, have fixed their boards. For those customers in developing phase, they need to revise their boards.

- 2. Correction in Signal Name: There will be no impact to customer's boards.
- 3. Removing Test and Hidden Signals from Pinlist : There will be no impact to customer's boards.

Freescale will consider specific conditions of acceptance of this change submitted within 30 days of receipt of this notice on a case by case basis. To request further data or inquire about the notification, please enter a <u>Service Request.</u>

For sample inquiries - please go to www.freescale.com

QUAL DATA AVAILABILITY DATE: 14-Sep-2012

QUALIFICATION STATUS: N/A

QUALIFICATION PLAN:

Qualification plan is not required for this communication.

RELIABILITY DATA SUMMARY:

Reliability data is not required for this communication.

ELECTRICAL CHARACTERISTIC SUMMARY:

Electrical data is not required for this communication.

CHANGED PART IDENTIFICATION:

There will be no change in part marking.

SAMPLE AVAILABILITY DATE: 19-Jun-2013

ATTACHMENT(S):

External attachment(s) FOR this notification can be viewed AT: <u>15545_Updates_in_8309_06_families_Pinlist.pdf</u>