Date: 23th, Aug., 2018

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Issue by: ESBC/EIoT

Product Change Notification

Key Characteristics of the Change

Intel® Celeron®J1900/J1800/N2930/N2807, Intel® Atom® E3845/E3827/E3826/E3825/E3815/E3805

CPU stepping conversion to D-1 stepping.

Description of Change to the Customer

Intel will start transitioning the **D-0** stepping of the Intel® Atom® Processor E3800 Series to **D-1**.

Intel will start transitioning the **C-0** stepping of the Intel® Celeron® Processors N2930, N2807, J1800 and J1900 to **D-1**.

The new D-1 stepping will be physically and electrically drop in compatible, but suggest to revise CPU microcode. For more detail, please refer to **Intel PCN-116009-00**.

Due to this change, Advantech Embedded SBC products **MIO-5251, MIO-2263, MIO-3260, PCM-9365, and PCM-3365** will revise adopted CPU to new stepping with necessary changes and sufficient tests.

For standard product part number:

Product Affected (P/N no change)	CPU	Before Change		After Change	
		CPU (S-Spec)	BIOS	CPU (S-Spec)	BIOS
MIO-5251J-U0A1E	J1900	S R1UT	DF60V111	S R3V5	DF60V112
MIO-5251JZ-2GA1E					
MIO-5251JZ2-2GA1E					
MIO-5251E-S3A1E	E3825	S R1X9	IF60V111	S R3UZ	IF60V112
MIO-5251EW-S9A1E	E3845	S R1X6	IF60V111	S R3UT	IF60V112
MIO-2263J-U0A1E	J1900	S R1UT	DF60V112	S R3V5	DF60V113
MIO-2263JH-U0A1E					
MIO-2263E-S3A1E	E3825	S R1X9	IF60V112	S R3UZ	IF60V113
MIO-2263EZ-2GS3A1E					
MIO-2263EZ22GS3A1E					
MIO-3260L-S8A1E	N2930	S R1W3	MF60V111	S R3V7	MF60V112
MIO-3260LZ22GS8A1E					
MIO-3260C-S8A1E					
MIO-3260CZ22GS8A1E					

MIO-3260L-S3A1E	E3825	S R1X9	IF60V111	S R3UZ	IF60V112
MIO-3260LZ22GS3A1E					
PCM-9365N-4GS8A1E	N2930	S R1W3	MF60V111	S R3V7	MF60V112
PCM-9365NZ24GS8A1E					
PCM-9365E-2GS3A1E	E3825	S R1X9	IF60V111	S R3UZ	IF60V112
PCM-9365EV-4GS3A1E					
PCM-9365EZ22GS3A1E					
PCM-3365N-S8A1E	N2930	S R1W3	MF60V110	S R3V7	MF60V111
PCM-3365E-S3A1E	E3825	S R1X9	IF60V110	S R3UZ	IF60V111
PCM-3365EW-S3A1E					
PCM-3365EW-S9A1E	E3845	S R1X6	IF60V110	S R3UT	IF60V111

Customer Impact of Change and Recommended Action

Impact on hardware design: No

Impact on BIOS changes: Yes*, require BIOS version change (microcode update)

Impact on software design: No

Impact on mechanical & thermal: No

Impact on ordering part number: No

*As Intel PCN-116009-00 mentions, the original BIOS with C-0/D-0 stepping microcode may also work with D-1 stepping processors but this combination has not been validated and Intel recommends user to update microcode.

For standard part number user:

Suggest customer test new board with D-1 stepping CPU and updated BIOS version before effective date.
If customer need more time to validate new version, please contact to Advantech sales to issue T-Part Number and place order before effective date with necessary quantities.
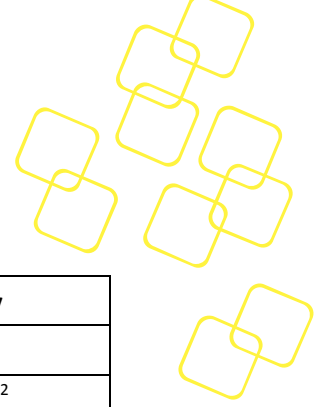
For T-part number user:

Suggest customer test new board with D-1 stepping CPU and updated BIOS version before effective date. If your T-P/N contain a customized BIOS, please issue the request to sales/FAE to get a new customized BIOS based on new BIOS version (microcode updated).
Once customer confirm the changes, please send a confirmation email to sales and we would implement the changes to your current T-P/N.

If customer need more time to validate new version, please place order before effective date with necessary quantities.

If customer want to distinguish old and new version, custome may issue a new T-P/N with new CPU stepping and new customized BIOS.

Effective Date

Part Number Type	Effective Date	Cut-in type	Last-Time-Buy
Standard Part Number	15th, Sept.,2018	Running change	Not available
T-Part Number	25th, Sept.,2018*[1]	Start from new order	Not available*[2]

*[1] Intel last order date is 28th, Sept., 2018. For internal order process, please place order in advance.

*[2] Please contact Advantech sales for alternative.

Ordering Information

No change

Last-Time-Buy and Last-Shipment

No LTB and LS available

Reference
Intel PCN-116009-00

PCN Revision History

Revision	Date	Description
V1.0	23th, Aug.,2018	Initial version