

**Date:** Nov.6, 2020

**PCN No.:** S201106

**Document Version:** V1.0

**Issue by:** ESBC/IIoT

# Product Change Notification

## Key Characteristics of the Change

Intel® Pentium® N4200, Celeron®N3350 CPU stepping conversion to F-1 stepping.

## Description of Change to the Customer

Intel transite the **D-0** stepping of the Intel® Atom® Processor E3900 Series to **F-1**.

Intel transite the **B-1** stepping of the Intel® Celeron® N4200 and Celeron®N3350 Processors to **F-1**.

The new F-1 stepping will be physically and electrically drop in compatible, but suggest to revise CPU microcode. For more detail, please refer to **Intel PCN-117143-00/ PCN116716-01**.

Due to this change, Advantech Embedded SBC products **MIO-2360/ PCM-9563/MIO-5350** will revise adopted CPU to new stepping with necessary changes and sufficient tests.

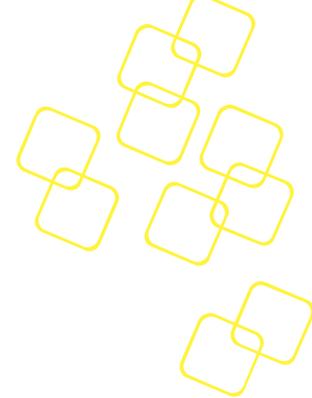
## Customer Impact of Change and Recommended Action

**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: Yes**

## Effective Items

Will have new product number to distinguish the old stepping.

Old Product Number	New Product Number	CPU	Before Changed		After changed	
			CPU (S-Spec)	BIOS	CPU (S-Spec)	BIOS
MIO-2360N-S1A1E	MIO-2360N-S1A2	Intel Celeron N3350	SR2Z7	0060V110	SREKH	0060V200
MIO-2360N-S2A1E	MIO-2360N-S2A2	Intel Pentium N4200	SR2Z5	0060V110	SRGVZ	0060V200
PCM-9563N-S1A1E	PCM-9563N-S1A2	Intel Celeron N3350	SR2Z7	0060V110	SREKH	0060V200
PCM-9563NF-S1A1E	PCM-9563NF-S1A2	Intel Celeron N3350	SR2Z7	0060V110	SREKH	0060V200
PCM-9563NF-S2A1E	PCM-9563NF-S2A2	Intel Pentium N4200	SR2Z5	0060V110	SRGVZ	0060V200
MIO-5350N-S2A1E	MIO-5350N-S2A2	Intel Pentium N4200	SR2Z5	0060V110	SRGVZ	0060V200
MIO-5350N-S1A1E	MIO-5350N-S1A2	Intel Celeron N3350	SR2Z7	0060V110	SREKH	0060V200
<b>New wide temp. SKU released</b>						
New Released	MIO-5350EW-S7A2	Intel Atom E3950	Wide temp.(0~85°C)			
New Released	MIO-5350EW-S6A2	Intel Atom E3940	Wide temp.(0~85°C)			
New Released	MIO-5350EW-S3A2	Intel Atom E3930	Wide temp.(0~85°C)			

\*As Intel PCN-116009-00 mentions, the original BIOS with C-0/D-0 stepping microcode may also work with F-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 F-1 stepping CPU and updated BIOS version.

### For T-part number user:

Suggest customer test new board with F-1 stepping CPU and updated BIOS version. 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 apply a new T-P/N to distinguish with stepping change.

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

## Effective Date

Part Number Type	Effective Date	Cut-in type	Last-Time-Buy
Standard Part Number	now	Running change	Not available
T-Part Number	30 <sup>th</sup> , Nov.,2020	Start from new order	Not available* <sup>1</sup>

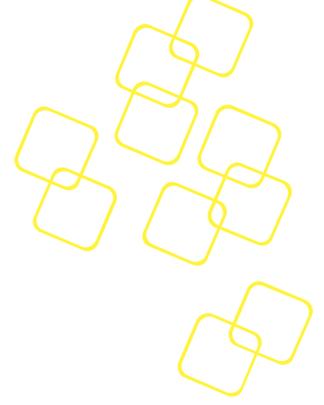
\*<sup>1</sup> Please contact Advantech sales for alternative and do the last time buy plan.



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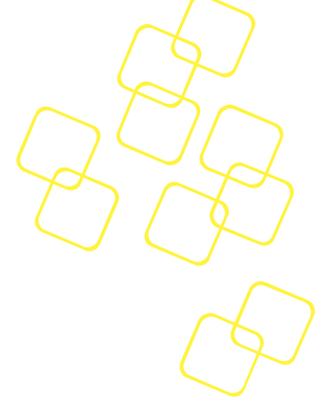
## **Last-Time-Buy and Last-Shipment**

No LTB and LS available





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## Reference

Intel PCN116716-01/ PCN117143-00

## PCN Revision History

Revision	Date	Description
V1.0	Nov. 6, 2020	Initial version