

**Final Product Change Notification**

202004006F01

**Issue Date:** 24-Dec-2020  
**Effective Date:** 24-Mar-2021

Here's your personalized quality information concerning products Digi-Key purchased from Nexperia.  
 For More details Please Contact your respective Nexperia CSR/AM.



**Management Summary**

Introduction of Vanguard International Semiconductor Corporation (VIS) in Hsinchu Science Park Taiwan for selected Logic products

**Change Category**

- |  |   |   |   |   |
|--|---|---|---|---|
| <input type="checkbox"/> Wafer Fab Process             | <input type="checkbox"/> Assembly Process   | <input checked="" type="checkbox"/> Product Marking | <input type="checkbox"/> Test Location  | <input type="checkbox"/> Design                         |
| <input type="checkbox"/> Wafer Fab Materials           | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification   | <input type="checkbox"/> Test Process   | <input type="checkbox"/> Errata                         |
| <input checked="" type="checkbox"/> Wafer Fab Location | <input type="checkbox"/> Assembly Location  | <input type="checkbox"/> Packing/Shipping/Labeling  | <input type="checkbox"/> Test Equipment | <input type="checkbox"/> Electrical spec./Test coverage |

Expansion of wafer fab capacity by introduction Vanguard Semiconductors (PC300 / 350)

**Details of this Change**

Expansion of wafer fab capacity by introduction Vanguard Semiconductors (Hsinchu Science Park, Taiwan) to meet customer demand

- Additional source for PC300 / PC350 process at Vanguard Semiconductors (Hsinchu, Taiwan) next to NXP ICN8 (Nijmegen, The Netherlands) and ASMC (Shanghai, China)
- For selected PC300 / PC350 processed Logic products

Please find the Qualification Report here: [https://qcm.nexperia.com/change-notification-epcn/PCN\\_202004006F01\\_SQR\\_VIS\\_C300\\_350.pdf](https://qcm.nexperia.com/change-notification-epcn/PCN_202004006F01_SQR_VIS_C300_350.pdf)

**Why do we Implement this Change**

- Front End capacity expansion
- Flexibility

## Identification of Affected Products

- The changed products can be identified by date code
- The change can be identified by backward traceability
- Diffusion fab location can be identified on top side marking and/or reel and box labels

## Product Availability

### Sample Information

Samples are available upon request

Samples are available upon request via Helpdesk+ from BG Analog & Logic ICs sample store in Nijmegen The Netherlands

### Production

Planned first shipment 24-Mar-2021

## Impact

- No impact
- No change in form, fit, function, quality or reliability
- Matching wafer PCM (Process Control Modules) and product parameters by 1.5 delta/sigma

### Data Sheet Revision

No impact to existing datasheet

### Disposition of Old Products

Products will continue to be diffused in ICN8 / ASMC and will continue to ship to meet customer demand

## Additional information

### Timing and Logistics

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 23-Jan-2021. Lack of acknowledgement of the PCN constitutes acceptance of the change.

## Remarks

Wafer Fab Indicators:

"Y"= ASMC, Shanghai, China

"T"= NXP ICN8, Nijmegen, Netherlands

"r"= Vanguard International Semiconductor Corporation (VIS), Hsinchu, Science Park, Taiwan

- No change in form, fit, function, quality or reliability
- No change in data sheet and test limits
- No change in ordering code 12NC's

## Contact and Support

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

**e-mail address** PCN-Logic@nexperia.com

At Nexperia B.V. we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

## About Nexperia B.V.

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74HCT4851PW,118	935285731118	74HCT4851PW	8-channel analog multiplexer/demultiplexer with in	SOT403-1	TSSOP16	RFS	Analog & Logic ICs
74HC245PW,118	935183570118	74HC245PW	Octal bus transceiver; 3-state	SOT360-1	TSSOP20	RFS	Analog & Logic ICs
74HCT595PW,118	935200990118	74HCT595PW	8-bit serial-in, serial or parallel-out shift regi	SOT403-1	TSSOP16	RFS	Analog & Logic ICs
74HC138D,653	933713400653	74HC138D	3-to-8 line decoder/demultiplexer; inverting	SOT109-1	SO16	RFS	Analog & Logic ICs
74HC245PW,112	935183570112	74HC245PW	Octal bus transceiver; 3-state	SOT360-1	TSSOP20	RFS	Analog & Logic ICs