Customer Information Notification

2022050003I : NVT4858 Data Sheet Update to Support 1.2V Operation

Note: This notice is NXP Company Proprietary.

Issue Date: Oct 19, 2022 **Effective date:Oct 20, 2022**

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Management summary

Recharacterized NVT4858 SD, SDIO, mini SD, micro SD and SIM card voltage level translator with EMI filter and ESD protection to support 1.2V in addition to the existing 1.8V host operation

Change Category

[ ]Wafer Fab Process	[ ]Assembly Process	[ ]Product Marking	[ ]Test Process	[ ]Design
[ ]Wafer Fab Materials	[ ]Assembly Materials	[ ]Mechanical Specification	[ ]Test Equipment	[ ]Errata
[ ]Wafer Fab Location	[ ]Assembly Location	[ ]Packing/Shipping/Labeling	[ ]Test Location	[X]Electrical spec./Test coverage
[ ]Firmware	[ ]Other			

PCN Overview
Description

Section 2: Removed text regarding "no external resistors required" and "External ESD diodes are not required"
Table 11:
Host-side input signals: Changed 0.7 to 0.65 for VIH min; changed 0.3 to 0.35 for VIL max
Changed Cch channel capacitance to CI capacitance for each I/O pin

Reason

External resistors and ESD diodes are optional based on customer application requirements
Industry request for lower 1.2V voltage host operation which required Host-side input signals VIH min changed from 0.7 to 0.65 and VIL max changed from 0.3 to 0.35
To conform to normal symbol for I/O pin capacitance

Identification of Affected Products

Product identification does not change

Anticipated Impact on Form, Fit, Function, Reliability or Quality

No Impact on form, fit, function, reliability or quality
Data Sheet Revision
A new datasheet will be issued
Disposition of Old Products

Existing inventory will be shipped until depleted
New Final Test limits for 0.65 Vih and 0.35 Vil Host-side input signals to support 1.2V host operations was implemented Date Code 2231.

Additional information

Additional documents: view online

Remarks

Updated NVT4858 data sheet can be downloaded from https://www.nxp.com/docs/en/data-sheet/NVT4858DS.pdf

Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

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

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

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
NVT4858UKZ	935420886012	NVT4858UK	SD & SIM card VLT with EMI & ESD			RFS	No	BLC6
NVT4858HKZ	935404597471	NVT4858HK	SD & SIM card VLT with EMI & ESD	(X)QFN16	SOT1161-2	RFS	No	BLC6