



---

**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16622**Generic Copy

---

**Issue Date:** 07-Apr-2011**TITLE:** Initial notice of intent to qualify ASE Kunshan for SOIC 14/16 capacity expansion**PROPOSED FIRST SHIP DATE:** 24-Oct-2011**AFFECTED CHANGE CATEGORY(S):** Subcontractor Assembly & Test Site**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or  
Shannon Riggs ([Shannon.Riggs@onsemi.com](mailto:Shannon.Riggs@onsemi.com)) for Analog devices  
Won Kang ([Won.Kang@onsemi.com](mailto:Won.Kang@onsemi.com)) for Logic devices

**NOTIFICATION TYPE:**

Initial Product/Process Change Notification (IPCN)

First change notification sent to customers. IPCNs are issued at least 120 days prior to implementation of the change. An IPCN is advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.

The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN).

This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change.

**DESCRIPTION AND PURPOSE:**

This is an Initial Product Change Notice to make customers aware that ASE, located in Kunshan, China is being qualified as a supplemental assembly source for ON Semiconductor's Analog and Logic SOIC14 and SOIC16 products. ASE is a fully certified ISO9001 and TS16949 supplier. These packages are currently manufactured in ON Semiconductor's facility in Carmona, Philippines. This is not a transfer but a capacity expansion.

Device parameters will continue to meet all Data Book specifications, and reliability will meet or exceed ON Semiconductor established standards. Upon expiration of the FINAL PCN(s), the affected devices may be processed at either location depending on capacity requirements.

FINAL PCN(s) will be issued as needed to accommodate the varying qualification schedules for the affected devices.

Samples will be available once the FINAL PCN(s) is(are) published.



**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16622**

**QUALIFICATION PLAN:**

Estimated Date for Qualification Completion: 06/15/2011  
 Samples should be available after completion of Qualification.

Qualification will include the following tests as necessary to provide appropriate coverage and consideration for all differences in die sizes and wafer technologies.

<b>Reference</b>	<b>Test Conditions</b>
JESD22 A113 J-STD-020	Preconditioning: (Test @R) SMD only; Moist. Precond.
JESD22 A102 or A118	Autoclave: (Test @R) 121°C/100% RH/ 15 PSIG for 192hrs
JESD22 A104	Temp Cycle: (Test @R/H) -65°C to+150°C; for 1500 cycles
JESD22 A108	High Temp Storage Life: TA=150°C(R/H) for 1008 hrs.
JEDEC JESD22A108	High Temperature op Life: (Test @ R) Ta=150C fo 1008 Hrs
JESD22 A101 or A110	High Accel Stress Test: (Test @R/H) 130°C/85% RH for 144hrs
JESD22 B102	Solderability
Jedec B-106	Resistance to Solder Heat
AEC-Q100-001	Wire Bond Shear Test: Cpk >1.33
JESD22 B100,B108	Physical Dimension: Critical Cpk>1.33



**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16622**

**List of affected General Parts:**

**Logic**

MC14001BDG	MC14028BDG	MC14077BDG	MC14555BDR2G
MC14001BDR2G	MC14028BDR2G	MC14077BDR2G	MC14556BDR2G
MC14001UBDG	MC14029BDR2G	MC14081BDG	MC14572UBDG
MC14001UBDR2G	MC14040BDG	MC14081BDR2G	MC14572UBDR2G
MC14007UBDG	MC14040BDR2G	MC14082BDG	MC14584BDG
MC14007UBDR2G	MC14042BDG	MC14082BDR2G	MC14584BDR2G
MC14008BDR2G	MC14042BDR2G	MC14093BDG	MC14585BDG
MC14011BDG	MC14043BDG	MC14093BDR2G	MC14585BDR2G
MC14011BDR2G	MC14043BDR2G	MC14094BDG	MC74HC00ADG
MC14011BDR2GH	MC14044BDG	MC14094BDR2G	MC74HC00ADR2G
MC14011UBDG	MC14044BDR2G	MC14106BDG	MC74HC02ADG
MC14011UBDR2G	MC14049BDG	MC14106BDR2G	MC74HC02ADR2G
MC14012BDG	MC14049BDR2G	MC14174BDR2G	MC74HC03ADG
MC14012BDR2G	MC14049UBDG	MC14175BDG	MC74HC03ADR2G
MC14013BDG	MC14049UBDR2G	MC14175BDR2G	MC74HC04ADG
MC14013BDR2G	MC14050BDG	MC14503BDG	MC74HC04ADR2G
MC14014BDG	MC14050BDR2G	MC14503BDR2G	MC74HC05ADG
MC14014BDR2G	MC14051BDG	MC14504BDG	MC74HC05ADR2G
MC14015BDG	MC14051BDR2G	MC14504BDR2G	MC74HC08ADG
MC14015BDR2G	MC14051BDR2H	MC14511BDG	MC74HC08ADR2G
MC14016BDG	MC14052BDG	MC14511BDR2G	MC74HC10ADG
MC14016BDR2G	MC14052BDR2G	MC14512BDG	MC74HC10ADR2G
MC14017BDG	MC14052BDR2GH	MC14512BDR2G	MC74HC112ADG
MC14017BDR2G	MC14053BDG	MC14516BDG	MC74HC112ADR2G
MC14018BDG	MC14053BDR2G	MC14516BDR2G	MC74HC11ADG
MC14018BDR2G	MC14053BDR2H	MC14521BDG	MC74HC11ADR2G
MC14020BDG	MC14060BDG	MC14521BDR2G	MC74HC125ADG
MC14020BDR2G	MC14060BDR2G	MC14528BDG	MC74HC125ADR2G
MC14021BDG	MC14066BDG	MC14528BDR2G	MC74HC126ADG
MC14021BDR2G	MC14066BDR2G	MC14532BDG	MC74HC126ADR2G
MC14022BDG	MC14069UBDG	MC14532BDR2G	MC74HC132ADG
MC14022BDR2G	MC14069UBDR2G	MC14538BDG	MC74HC132ADR2G
MC14023BDG	MC14070BDG	MC14538BDR2G	MC74HC138ADG
MC14023BDR2G	MC14070BDR2G	MC14541BDG	MC74HC138ADR2G
MC14024BDG	MC14071BDG	MC14541BDR2G	MC74HC139ADG
MC14024BDR2G	MC14071BDR2G	MC14543BDG	MC74HC139ADR2G
MC14025BDG	MC14073BDG	MC14543BDR2G	MC74HC139ADR2H
MC14025BDR2G	MC14073BDR2G	MC14551BDG	MC74HC14ADG
MC14027BDG	MC14076BDG	MC14551BDR2G	MC74HC14ADR2G
MC14027BDR2G	MC14076BDR2G	MC14555BDG	MC74HC151ADG



**INITIAL PRODUCT/PROCESS CHANGE NOTIFICATION # 16622**

**Logic (continued)**

MC74HC151ADR2G  
 MC74HC153ADG  
 MC74HC153ADR2G  
 MC74HC157ADG  
 MC74HC157ADR2G  
 MC74HC160ADG  
 MC74HC160ADR2G  
 MC74HC161ADG  
 MC74HC161ADR2G  
 MC74HC163ADG  
 MC74HC163ADR2G  
 MC74HC164ADG  
 MC74HC164ADR2G  
 MC74HC165ADG  
 MC74HC165ADR2G  
 MC74HC174ADG  
 MC74HC174ADR2G  
 MC74HC175ADG  
 MC74HC175ADR2G  
 MC74HC20ADG  
 MC74HC20ADR2G  
 MC74HC238ADG  
 MC74HC238ADR2G  
 MC74HC251ADG  
 MC74HC251ADR2G  
 MC74HC259ADG  
 MC74HC259ADR2G  
 MC74HC30ADG  
 MC74HC30ADR2G  
 MC74HC32ADG  
 MC74HC32ADR2G  
 MC74HC365ADG  
 MC74HC365ADR2G  
 MC74HC367ADG  
 MC74HC367ADR2G  
 MC74HC368ADG  
 MC74HC368ADR2G  
 MC74HC390ADG  
 MC74HC390ADR2G  
 MC74HC393ADG

MC74HC393ADR2G  
 MC74HC4020ADG  
 MC74HC4020ADR2G  
 MC74HC4040ADG  
 MC74HC4040ADR2G  
 MC74HC4051ADG  
 MC74HC4051ADR2G  
 MC74HC4051ADR2H  
 MC74HC4052ADG  
 MC74HC4052ADR2G  
 MC74HC4053ADG  
 MC74HC4053ADR2G  
 MC74HC4066ADG  
 MC74HC4066ADR2G  
 MC74HC4066ADR2H  
 MC74HC4094ADG  
 MC74HC4094ADR2G  
 MC74HC4851ADG  
 MC74HC4851ADR2G  
 MC74HC4852ADG  
 MC74HC4852ADR2G  
 MC74HC589ADG  
 MC74HC589ADR2G  
 MC74HC595ADG  
 MC74HC595ADH  
 MC74HC595ADR2G  
 MC74HC595ADR2H  
 MC74HC597ADG  
 MC74HC597ADR2G  
 MC74HC73ADG  
 MC74HC73ADR2G  
 MC74HC74ADG  
 MC74HC74ADR2G  
 MC74HC86ADG  
 MC74HC86ADR2G  
 MC74HCT04ADG  
 MC74HCT04ADR2G  
 MC74HCT08ADG  
 MC74HCT08ADR2G  
 MC74HCT08ADR2H

MC74HCT125ADG  
 MC74HCT125ADR2G  
 MC74HCT132ADG  
 MC74HCT132ADR2G  
 MC74HCT138ADG  
 MC74HCT138ADR2G  
 MC74HCT14ADG  
 MC74HCT14ADR2G  
 MC74HCT14ADR2GH  
 MC74HCT32ADG  
 MC74HCT32ADR2G  
 MC74HCT366ADG  
 MC74HCT366ADR2G  
 MC74HCT4051ADG  
 MC74HCT4051ADR2G  
 MC74HCT4051ADR2H  
 MC74HCT4066ADG  
 MC74HCT4066ADR2G  
 MC74HCT4851ADG  
 MC74HCT4851ADR2G  
 MC74HCT4852ADG  
 MC74HCT4852ADR2G  
 MC74HCT74ADG  
 MC74HCT74ADR2G  
 MC74HCT86ADG  
 MC74HCT86ADR2G  
 MC74HCU04ADG  
 MC74HCU04ADR2G  
 MC74VHC4051DR2G  
 MC74VHC4052DR2G  
 MC74VHC4053DR2G  
 MC74VHC4066DR2G

**Analog**

LM224DG  
 LM224DR2G  
 LM2902DG  
 LM2902DR2G  
 LM2902VDG  
 LM2902VDR2G  
 LM324DG  
 LM324DR2G  
 LM239DG  
 LM239DR2G  
 LM2901DG  
 LM2901DR2G  
 LM2901VDG  
 LM2901VDR2G  
 LM339DG  
 LM339DR2G  
 MC3302DG  
 MC3302DR2G  
 MC1413BDG  
 MC1413BDR2G  
 MC1413DG  
 MC1413DR2G  
 ULN2003ADR2G