



January 17, 2007

PCN Number: 0623

PCN Change Level: Major

Subject: Qualification of "Green" Material for MX Product Family and Addition of Assembly Vendor

Dear Purchasing,

This notice is to inform you that Actel has added additional assembly vendors and has qualified "green" material for the MX product family for the RoHS-compliant PQFP, TQFP, and VQFP packages.

ASAT-China has been added as an additional assembly vendor for the PQFP package. Refer to Table 1 for more information. Depending on device/package type, this location is in addition to STATSChipPac. The assembly location country is marked on the bottom of the device ("Singapore" if manufactured at STATSChipPac, and "China" if manufactured at ASAT-China).

**Table 1 • MX PQFP Packages**

<b>Devices</b>	<b>Packages</b>
A40MX02	PQG100/PQ100
A40MX04	PQG100/PQ100
A42MX09	PQG100/PQ100
A42MX09	PQG160/PQ160
A42MX16	PQG100/PQ100
A42MX16	PQG160/PQ160
A42MX16	PQG208/PQ208
A42MX24	PQG160/PQ160
A42MX24	PQG208/PQ208

In addition, the devices built at ASAT-China will use the following "green" materials:

- Mold compound – Sumitomo G700
- Die attach material – Ablestik 2200
- Lead Finish – RoHS Compliant – 100% Sn; Standard – 85% Sn/15% Pb



STATSChipPac has been added as an additional assembly vendor for TQFP and VQFP packages. Refer to Table 2 for more information. Depending on device/package type, this location is in addition to Amkor-Korea. The assembly location country is marked on the bottom of the device ("Singapore" if manufactured at STATSChipPac, and "Korea" if manufactured at Amkor-Korea).

**Table 2 • MX TQFP, VQFP Packages**

Devices	Packages
A40MX02	VQG80/VQ80
A40MX04	VQG80/VQ80
A42MX09	TQG176/TQ76
A42MX09	VQG100/VQ100
A42MX16	TQG176/TQ176
A42MX16	VQG100/VQ100
A42MX24	TQG176/TQ176

Devices built at STATSChipPac will use the following "green" materials:

- Mold compound – Sumitomo G700E
- Die attach material – Ablestik 3230
- Lead finish – RoHS Compliant - 100% Sn; Standard - 85% Sn/15% Pb

Shipments of material conforming to this PCN will begin shipping in 90 days from the date of this PCN. The Qualification Summary for the PQFP package is PA-090, and for the TQFP and VQFP packages it is PA-091.

For questions, please contact Actel's Application Technical Support at [tech@actel.com](mailto:tech@actel.com).

Regards,

Actel Corporation