



April 30, 2010

PCN Number: 1011

PCN Change Level: Minor

Subject: Programming software update for SX-A and eX product families

Dear Customer,

The Silicon Sculptor programming algorithms for SX-A and eX devices have been enhanced to increase the programming yield. This programming algorithm has been added to the Silicon Sculptor v5.4.1 software and can be downloaded from Actel website:

http://www.actel.com/download/program_debug/ss/files.aspx.

The affected A54SX32A devices are listed in Table 1.

The affected A54SX72A devices are listed in Table 2 on page 3.

The affected eX devices are listed in Table 3 on page 4.

Table 1. A54SX32A Devices Affected

A54SX32A-BG329	A54SX32A-FFG484	A54SX32A-FTQG144
A54SX32A-BGG329	A54SX32A-FFGG484	A54SX32A-1TQ144
A54SX32A-FBG329	A54SX32A-1FG484	A54SX32A-1TQG144
A54SX32A-FBGG329	A54SX32A-1FGG484	A54SX32A-2TQ144
A54SX32A-1BG329	A54SX32A-2FG484	A54SX32A-2TQG144
A54SX32A-1BGG329	A54SX32A-2FGG484	A54SX32A-TQ144I
A54SX32A-2BG329	A54SX32A-FG484I	A54SX32A-TQG144I
A54SX32A-2BGG329	A54SX32A-FGG484I	A54SX32A-1TQ144I
A54SX32A-BG329I	A54SX32A-1FG484I	A54SX32A-1TQG144I
A54SX32A-BGG329I	A54SX32A-1FGG484I	A54SX32A-2TQ144I
A54SX32A-1BG329I	A54SX32A-2FG484I	A54SX32A-2TQG144I
A54SX32A-1BGG329I	A54SX32A-2FGG484I	A54SX32A-TQ144A
A54SX32A-2BG329I	A54SX32A-FG484M	A54SX32A-TQG144A
A54SX32A-2BGG329I	A54SX32A-FGG484M	A54SX32A-TQ144M
A54SX32A-BG329M	A54SX32A-1FG484M	A54SX32A-TQG144M
A54SX32A-BGG329M	A54SX32A-1FGG484M	A54SX32A-1TQ144M
A54SX32A-1BG329M	A54SX32A-PQ208	A54SX32A-1TQG144M
A54SX32A-1BGG329M	A54SX32A-PQG208	A54SX32A-TQ176

Table 1. A54SX32A Devices Affected (continued)

A54SX32A-FG144	A54SX32A-FPQ208	A54SX32A-TQG176
A54SX32A-FGG144	A54SX32A-FPQG208	A54SX32A-FTQ176
A54SX32A-FFG144	A54SX32A-1PQ208	A54SX32A-FTQG176
A54SX32A-FFGG144	A54SX32A-1PQG208	A54SX32A-1TQ176
A54SX32A-1FG144	A54SX32A-2PQ208	A54SX32A-1TQG176
A54SX32A-1FGG144	A54SX32A-2PQG208	A54SX32A-2TQ176
A54SX32A-2FG144	A54SX32A-PQ208I	A54SX32A-2TQG176
A54SX32A-2FGG144	A54SX32A-PQG208I	A54SX32A-TQ176I
A54SX32A-FG144I	A54SX32A-1PQ208I	A54SX32A-TQG176I
A54SX32A-FGG144I	A54SX32A-1PQG208I	A54SX32A-1TQ176I
A54SX32A-1FG144I	A54SX32A-2PQ208I	A54SX32A-1TQG176I
A54SX32A-1FGG144I	A54SX32A-2PQG208I	A54SX32A-2TQ176I
A54SX32A-2FG144I	A54SX32A-PQ208A	A54SX32A-2TQG176I
A54SX32A-2FGG144I	A54SX32A-PQG208A	A54SX32A-TQ176M
A54SX32A-FG144A	A54SX32A-PQ208M	A54SX32A-TQG176M
A54SX32A-FGG144A	A54SX32A-PQG208M	A54SX32A-1TQ176M
A54SX32A-FG144M	A54SX32A-1PQ208M	A54SX32A-1TQG176M
A54SX32A-FGG144M	A54SX32A-1PQG208M	A54SX32A-CQ84
A54SX32A-1FG144M	A54SX32A-TQ100	A54SX32A-1CQ84
A54SX32A-1FGG144M	A54SX32A-TQG100	A54SX32A-CQ84M
A54SX32A-FG256	A54SX32A-FTQ100	A54SX32A-1CQ84M
A54SX32A-FGG256	A54SX32A-FTQG100	A54SX32A-CQ84B
A54SX32A-FFG256	A54SX32A-1TQ100	5962-0151801QZC
A54SX32A-FFGG256	A54SX32A-1TQG100	A54SX32A-1CQ84B
A54SX32A-1FG256	A54SX32A-2TQ100	5962-0151802QZC
A54SX32A-1FGG256	A54SX32A-2TQG100	A54SX32A-CQ208
A54SX32A-2FG256	A54SX32A-TQ100I	A54SX32A-1CQ208
A54SX32A-2FGG256	A54SX32A-TQG100I	A54SX32A-CQ208M
A54SX32A-FG256I	A54SX32A-1TQ100I	A54SX32A-1CQ208M
A54SX32A-FGG256I	A54SX32A-1TQG100I	A54SX32A-CQ208B
A54SX32A-1FG256I	A54SX32A-2TQ100I	5962-0151801QYC

Table 1. A54SX32A Devices Affected (continued)

A54SX32A-1FGG256I	A54SX32A-2TQG100I	A54SX32A-1CQ208B
A54SX32A-2FG256I	A54SX32A-TQ100A	5962-0151802QYC
A54SX32A-2FGG256I	A54SX32A-TQG100A	A54SX32A-CQ256
A54SX32A-FG256A	A54SX32A-TQ100M	A54SX32A-1CQ256
A54SX32A-FGG256A	A54SX32A-TQG100M	A54SX32A-CQ256M
A54SX32A-FG256M	A54SX32A-1TQ100M	A54SX32A-1CQ256M
A54SX32A-FGG256M	A54SX32A-1TQG100M	A54SX32A-CQ256B
A54SX32A-1FG256M	A54SX32A-TQ144	5962-0151801QXC
A54SX32A-1FGG256M	A54SX32A-TQG144	A54SX32A-1CQ256B
A54SX32A-FG484	A54SX32A-FTQ144	5962-0151802QXC
A54SX32A-FGG484		

Table 2. A54SX72A Devices Affected

A54SX72A-FG256	A54SX72A-2FG484	A54SX72A-1PQG208I
A54SX72A-FGG256	A54SX72A-2FGG484	A54SX72A-2PQ208I
A54SX72A-FFG256	A54SX72A-FG484I	A54SX72A-2PQG208I
A54SX72A-FFGG256	A54SX72A-FGG484I	A54SX72A-PQ208A
A54SX72A-1FG256	A54SX72A-1FG484I	A54SX72A-PQG208A
A54SX72A-1FGG256	A54SX72A-1FGG484I	A54SX72A-PQ208M
A54SX72A-2FG256	A54SX72A-2FG484I	A54SX72A-PQG208M
A54SX72A-2FGG256	A54SX72A-2FGG484I	A54SX72A-1PQ208M
A54SX72A-FG256I	A54SX72A-FG484A	A54SX72A-1PQG208M
A54SX72A-FGG256I	A54SX72A-FGG484A	A54SX72A-CQ208
A54SX72A-1FG256I	A54SX72A-FG484M	A54SX72A-1CQ208
A54SX72A-1FGG256I	A54SX72A-FGG484M	A54SX72A-CQ208M
A54SX72A-2FG256I	A54SX72A-1FG484M	A54SX72A-1CQ208M
A54SX72A-2FGG256I	A54SX72A-1FGG484M	A54SX72A-CQ208B
A54SX72A-FG256A	A54SX72A-PQ208	5962-0054301QYC
A54SX72A-FGG256A	A54SX72A-PQG208	A54SX72A-1CQ208B
A54SX72A-FG256M	A54SX72A-FPQ208	5962-0054302QYC
A54SX72A-FGG256M	A54SX72A-FPQG208	A54SX72A-CQ256
A54SX72A-1FG256M	A54SX72A-1PQ208	A54SX72A-1CQ256

Table 2. A54SX72A Devices Affected (continued)

A54SX72A-1FGG256M	A54SX72A-1PQG208	A54SX72A-CQ256M
A54SX72A-FG484	A54SX72A-2PQG208	A54SX72A-1CQ256M
A54SX72A-FGG484	A54SX72A-2PQG208	A54SX72A-CQ256B
A54SX72A-FFG484	A54SX72A-PQG208I	5962-0054301QXC
A54SX72A-FFGG484	A54SX72A-PQG208I	A54SX72A-1CQ256B
A54SX72A-1FG484	A54SX72A-1PQG208I	5962-0054302QXC
A54SX72A-1FGG484		

Table 3. eX Devices Affected

eX64-CS49	eX64-PTQ100I	eX128-PTQ100
eX64-CSG49	eX64-PTQG100I	eX128-PTQG100
eX64-FCS49	eX64-TQ100A	eX128-TQ100I
eX64-FCSG49	eX64-TQG100A	eX128-TQG100I
eX64-PCS49	eX128-CS49	eX128-PTQ100I
eX64-PCSG49	eX128-CSG49	eX128-PTQG100I
eX64-CS49I	eX128-FCS49	eX128-TQ100A
eX64-CSG49I	eX128-FCSG49	eX128-TQG100A
eX64-PCS49I	eX128-PCS49	eX256-CS128
eX64-PCSG49I	eX128-PCSG49	eX256-CSG128
eX64-CS49A	eX128-CS49I	eX256-FCS128
eX64-CSG49A	eX128-CSG49I	eX256-FCSG128
eX64-CS128	eX128-PCS49I	eX256-PCS128
eX64-CSG128	eX128-PCSG49I	eX256-PCSG128
eX64-FCS128	eX128-CS49A	eX256-CS128I
eX64-FCSG128	eX128-CSG49A	eX256-CSG128I
eX64-PCS128	eX128-CS128	eX256-PCS128I
eX64-PCSG128	eX128-CSG128	eX256-PCSG128I
eX64-CS128I	eX128-FCS128	eX256-CS128A
eX64-CSG128I	eX128-FCSG128	eX256-CSG128A
eX64-PCS128I	eX128-PCS128	eX256-CS180
eX64-PCSG128I	eX128-PCSG128	eX256-CSG180
eX64-CS128A	eX128-CS128I	eX256-FCS180

Table 3. eX Devices Affected (continued)

eX64-CSG128A	eX128-CSG128I	eX256-FCSG180
eX64-TQ64	eX128-PCS128I	eX256-PCS180
eX64-TQG64	eX128-PCSG128I	eX256-PCSG180
eX64-FTQ64	eX128-CS128A	eX256-CS180I
eX64-FTQG64	eX128-CSG128A	eX256-CSG180I
eX64-PTQ64	eX128-TQ64	eX256-PCS180I
eX64-PTQG64	eX128-TQG64	eX256-PCSG180I
eX64-TQ64I	eX128-FTQ64	eX256-CS180A
eX64-TQG64I	eX128-FTQG64	eX256-CSG180A
eX64-PTQ64I	eX128-PTQ64	eX256-TQ100
eX64-PTQG64I	eX128-PTQG64	eX256-TQG100
eX64-TQ64A	eX128-TQ64I	eX256-FTQ100
eX64-TQG64A	eX128-TQG64I	eX256-FTQG100
eX64-TQ100	eX128-PTQ64I	eX256-PTQ100
eX64-TQG100	eX128-PTQG64I	eX256-PTQG100
eX64-FTQ100	eX128-TQ64A	eX256-TQ100I
eX64-FTQG100	eX128-TQG64A	eX256-TQG100I
eX64-PTQ100	eX128-TQ100	eX256-PTQ100I
eX64-PTQG100	eX128-TQG100	eX256-PTQG100I
eX64-TQ100I	eX128-FTQ100	eX256-TQ100A
eX64-TQG100I	eX128-FTQG100	eX256-TQG100A

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Regards,

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