

V2X

PN COMPATIBILITY LISTING

PN 63413

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INTRODUCTION

This manual contains two parts:

1. INTRODUCTION - which defines the content of the manual and explains how to use it.
2. Compatibility is defined as follows:

Downward Compatible: A new assembly (usually a higher PN) is a direct replacement (downward compatible) for an old assembly (usually a lower PN) when it does not degrade machine performance. Downward compatibility is indicated when both assemblies have the same compatibility number for a specific application.

Upward Compatible: An old assembly (usually a lower PN) is equivalent to (upward compatible) and may directly replace a new assembly (usually a higher PN) if its use does not affect machine performance. Upward compatibility is indicated when assemblies having the same compatibility number are also indicated as "equivalent" in the "Description of EC" field.

Each page in the compatibility section contains the compatibility information for each FRU. It shows the history of Engineering Changes (ECs) that resulted in part number changes for that FRU. It also shows which part numbers are obsolete and which part numbers can be used to replace them.

For some FRUs, the functional changes that resulted in new part numbers will not function without corresponding machine rework. This usually results in a compatibility number change for the new assembly. The "Description of EC: field will summarize the changes. A Field APL defining the required rework will be listed in a separate column next to the EC number if applicable.

When a common FRU is released or modified for specific use in a new model or feature, the compatibility number will roll to indicate the new part number is not downward compatible for the new feature or models.

If the FRU is downward compatible for other existing models, an explanation will be added to the EC Description field.

If the compatibility number does not change, the new FRU will perform at least the same functions as the older FRU.

COMPATIBILITY AND OBSOLESCENCE

Any part number that is prefixed with an asterisk (*) is an obsolete part number. Obsolete means that the part will no longer be supplied. If an obsolete part is ordered, the field parts crib will substitute a part that is downward compatible or equivalent to the part number ordered.

Downward compatibility is designated by the compatibility number to the right of the part number. A FRU of a given part number is downward compatible with all those lower part number FRUs that have the same compatibility number. This means it can be used to replace any of the lower part numbers having the same compatibility number without requiring rework to another FRU or the machine.

For Example:

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|--|
| *42150101 | 1 | 40020 | | | NONE | IR - W/W BOARD |
| *42150102 | 1 | 40030 | | | NONE | ADD REWORK |
| 42150202 | 1 | 40040 | | | 8612 | IMBED REWORK - EQUIV TO 102 |
| *42150203 | 2 | 40050 | | | 8619 | ADD REWORK. REQUIRED MBD AT LEVEL ___. |
| 42150204 | 2 | 40060 | | | NONE | ADD REWORK |

In the above example:

P/N 42150 101 can replace only itself.

P/N 42150 102 can replace itself or P/N 42150101 (or -202 because it is equivalent).

P/N 42150 202 can replace itself, P/N 42150101 or P/N 42150102.

P/N 42150 203 can replace only itself. (Can not replace lower level cards unless MBD change or other prerequisite is installed).

P/N 42150 204 can replace itself and -203. (Cannot replace lower level cards unless MBD change or other prerequisite is installed).

* The asterisk to the left of a part number indicates that the part is obsolete and is no longer supported by manufacturing. The highest level part for each compatibility level should not carry an asterisk because manufacturing must support field spares until all machines have been brought to the next compatibility level.

CAUTION

Upward compatibility exists only if two FRUs with the same compatibility number are described as "equivalent" in the "Description of EC" field. Any other substitution of a lower part number for a higher part number requires a great deal of caution. Such practice may result in noise problems, timing problems, diagnostic errors, etc. Any attempt to utilize such a lower part number requires ensuring that functional changes or improvements missing from the lower part number will not result in customer system operation degradation. Reference the description of each EC and ensure that no machine wiring changes or companion changes to other FRUs were required at the time the higher part number was originally installed. Usage in this manner is not recommended and should be avoided if possible.

UPDATING THE MANUAL

To update the manual, insert the new pages according to the new list of effective pages. Remove and discard any pages that are replaced by a later EC level, or are shown as deleted from the list of effective pages.

Comments concerning the content of this manual should be directed to Configuration Management at the address below. In case of errors, please give specific page and line references, where appropriate. For a reply, include name and address.

Requests for additional copies of this manual should be directed to the Field Crib via Field Inventory System (FIS) terminals.

This publication was prepared by Storage Technology Corporation, 1 StorageTek Drive, Louisville, Colorado 80028-0001.

FRU NAME ACMB
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ACMB
 DESCRIPTION PWA, ACMB

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311881201 | 2 | 122403 | 00 | 00 | NONE | INITIAL RELEASE. |
| *311881202 | 2 | 127642 | 00 | 00 | NONE | INSTALLED A DIELECTRIC INSULATOR BETWEEN THE CARD CONNECTOR POWER MODULES AND THE PWB TO PREVENT POTENTIAL SHORTING. |
| *311881202 | 2 | 127641 | 00 | 00 | NONE | EQUIVALENT TO 311881302. |
| 311881203 | 3 | 133609 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311881303. |
| *311881302 | 2 | 127641 | 00 | 00 | NONE | INITIAL RELEASE EMBED. EQUIVALENT TO 311881202. |
| 311881303 | 3 | 133609 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311881203. |

FRU NAME IFCMB
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IFCMB
 DESCRIPTION PWA, IFCMB

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|---|
| *311863501 | 1 | 127761 | 00 | 00 | NONE | EMBED. |
| *311863401 | 1 | 127528 | 00 | 00 | NONE | INITIAL RELEASE |
| *311863401 | 1 | 127823 | 00 | 00 | NONE | REACTIVATE THE 4XX MOTHERBOARD BECAUSE THE 5XX HAD AN ADVERSE EFFECT ON THE APS POWER SUPPLY. |
| *311863402 | 2 | 133604 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311863302. |
| 311863303 | 2 | 133641 | 00 | 00 | NONE | MODIFIED THE IFCMB TO CHANGE TO A LONGER SCREW. EQUIV. TO 311863403. |
| 311863403 | 2 | 133641 | 00 | 00 | NONE | MODIFIED THE IFCMB TO CHANGE TO A LONGER SCREW. EQUIV. TO 311863303. |

FRU NAME IMPOD
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IMPOD MBD
 DESCRIPTION IMPOD PWA

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|---|
| *307672401 | 1 | 122085 | 00 | 00 | NONE | INITIAL RELEASE |
| 307672402 | 2 | 133621 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |

FRU NAME ANV
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, ANV
 DESCRIPTION PWA, ANV

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|-------------------|----------|---------|----|----|------|--|
| *311898301 | 1 | 127502 | 00 | 00 | NONE | INITIAL RELEASE. FLASH AT 311895601 EP26. CPLD AT 311895501. |
| *311898301 | 1 | 127614A | 00 | 00 | NONE | REACTIVATE 301 LEVEL. CHANGE TO LOW JITTER OSCILLATOR. EQUIVALENT TO 311898402. |
| *311898302 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502. EQUIVALENT TO 311898403. |
| *311898303 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27. EQUIVALENT TO 311898404. |
| *311898304 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO VSC870 VDDA TO REDUCE NOISE. FLASH AT 311895602 EP27. EQUIVALENT TO 311898405. |
| *311898305 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311898406. |
| *311898306 | 1 | 127721 | 00 | 00 | NONE | ADD 3 CAPACITORS TO VOLTAGE REGULATOR TO REDUCE NOISE. EQUIV TO 311898407. |
| *311898307 | 1 | 127808 | 00 | 00 | NONE | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311898408/507. |
| *311898307 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311898408/508 |
| *311898307 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311898408/508/509. |

FRU NAME ANV, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, ANV
 DESCRIPTION PWA, ANV

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|------------------|----------|---------------|-----------|-----------|-------------|--|
| 311898308 | 2 | 133580 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311898409/510/315217202. |
| *311898402 | 1 | 127614 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. FLASH AT 311895601 EP26. CPLD AT 311895501. |
| *311898402 | 1 | 127614A | 00 | 00 | NONE | EQUIVALENT TO 311898301. |
| *311898403 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502. EQUIVALENT TO 311898302. |
| *311898404 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27. EQUIVALENT TO 311898303. |
| *311898405 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO VSC870 VDDA TO REDUCE NOISE. FLASH AT 311895602 EP27. EQUIVALENT TO 311898304. |
| *311898406 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311898305. |
| *311898407 | 1 | 127721 | 00 | 00 | NONE | ADD 3 CAPACITORS TO VOLTAGE REGULATOR TO REDUCE NOISE. EQUIVALENT TO 311898306. |

FRU NAME ANV, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, ANV
 DESCRIPTION PWA, ANV

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
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|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *311898408 | 1 | 127808 | 00 | 00 | *103113 | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311898307/507. FB 103113 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *311898408 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311898307/508 |
| 311898408 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311898307/508/509. |
| 311898409 | 2 | 133580 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311898308/510/315217202. |
| *311898507 | 1 | 127782 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. FLASH AT 311895603 EP29.EQUIVALENT TO 311898307/408. |
| *311898507 | 1 | 127876 | 00 | 00 | 103173 | FB 103173 RELEASED FACTORY/FIELD MANDATORY. |
| *311898507 | 1 | 127949 | 00 | 00 | 103173 | F/B 103173 CHANGED TO FACTORY/FIELD EXCEPTIONAL. |
| *311898508 | 1 | 127995 | 00 | 00 | 103173 | MODIFIED THE ANV BILL OF MATERIAL TO TRACK SCREENED VSC870 PARTS AND CHANGE FRUID EEPROM PART NUMBER. EQUIVALENT TO 311898307/408. |
| *311898508 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311898307/408/509. |
| *311898508 | 1 | 133542 | 00 | 00 | NONE | EQUIVALENT TO 315217201 AND 311898307/408. |

FRU NAME ANV, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, ANV
 DESCRIPTION PWA, ANV

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|-------------------|---|--------|----|----|------|---|
| *311898509 | 1 | 133507 | 00 | 00 | NONE | REPLACED FPGA WITH ASIC DEVICE AND ELIMINATED PROGRAMMING FLASH. EQUIVALENT TO 311898307/408/508. |
|-------------------|---|--------|----|----|------|---|

| | | | | | | |
|------------------|---|---------------|-----------|-----------|-------------|--|
| 311898510 | 2 | 133580 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311898308/409/315217202. |
|------------------|---|---------------|-----------|-----------|-------------|--|

| | | | | | | |
|-------------------|---|---------------|-----------|-----------|-------------|---|
| *311898511 | 2 | 133580 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
|-------------------|---|---------------|-----------|-----------|-------------|---|

FRU NAME IFF
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IFF
 DESCRIPTION PWA, IFF

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311879301 | 1 | 122482 | 00 | 00 | NONE | INITIAL RELEASE. |
| *311879302 | 1 | 127650 | 00 | 00 | NONE | MODIFIED THE IFF CARD BY CORRECTING PARITY PROBLEM ON THE CB BUS. EQUIVALENT TO 311879402. |
| *311879303 | 1 | 127667 | 00 | 00 | NONE | IMPROVED CTR AND DPMC FUNCTIONS. IMPROVED TIMING AND HEAT RELATED ISSUES |
| *311879304 | 1 | 127699 | 00 | 00 | NONE | ADDED ENHANCEMENTS TO FPGA FOR SOFTWARE TRACING AND PARITY CHECKING. EQUIVALENT TO 311879404. |
| *311879304 | 1 | 127939 | 00 | 00 | NONE | EQUIVALENT TO 311879404/506 |
| *311879304 | 1 | 133547 | 00 | 00 | NONE | EQUIVALENT TO 311879404/507. |
| 311879305 | 2 | 133603 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311879405/508. |
| *311879401 | 1 | 127567 | 00 | 00 | NONE | INITIAL RELEASE. |
| *311879402 | 1 | 127650 | 00 | 00 | NONE | PART NUMBER ROLLED ONLY TO MATCH 302 LEVEL IFF CARD. EQUIVALENT TO 311879302. |
| *311879403 | 1 | 127667 | 00 | 00 | NONE | IMPROVED CTR AND DPMC FUNCTIONS. IMPROVED TIMING AND HEAT RELATED ISSUES |
| *311879404 | 1 | 127699 | 00 | 00 | NONE | ADDED ENHANCEMENTS TO FPGA FOR SOFTWARE TRACING AND PARITY CHECKING. EQUIVALENT TO 311879304. |
| *311879404 | 1 | 127939 | 00 | 00 | NONE | EQUIVALENT TO 311879304/506 |

FRU NAME IFF (CONT)
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IFF
 DESCRIPTION PWA, IFF

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311879404 | 1 | 133547 | 00 | 00 | NONE | EQUIVALENT TO 311879304/507/ |
| 311879405 | 2 | 133603 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311879305/508. |
| 311879405 | 2 | 133719 | 00 | 00 | NONE | EQUIVALENT TO 311879509. |
| *311879504 | 1 | 127813A | 00 | 00 | NONE | INITIAL RELEASE OF IMBED. |
| *311879505 | 1 | 127932 | 00 | 00 | NONE | CHANGED CPLD U35 PROGRAM TO PREVENT IML FAILURES. |
| *311879506 | 1 | 127939 | 00 | 00 | NONE | CHANGED CPLD U35 PROGRAM TO PREVENT IML FAILURES. EQUIVALENT TO 311879304/404. |
| *311879507 | 1 | 133547 | 00 | 00 | NONE | MODIFIED THE IFF CARD BY REMOVING BROKEN CONNECTOR J6. EQUIVALENT TO 311879304/404. |
| *311879508 | 2 | 133603 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311879305/405. |
| 311879509 | 2 | 133719 | 00 | 00 | NONE | MODIFIED THE IFF CARD BY REPLACING AN END OF LIFE PART. EQUIV. TO 311879405. |

FRU NAME IFF2
 PRODUCT NUMBER V2X2
 FAMID CODE 481
 FRUID NAME IFF2
 DESCRIPTION PWA, IFF2

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *312356204 | 1 | 133619 | 00 | 00 | NONE | CHANGING TWO PROGRAMMABLE AT U48 & U116 P/N'S 312399401 TO 312399402 AND 312399501 TO 312399502. |
| *312356205 | 1 | 133655 | 00 | 00 | NONE | MODIFIED THE IFF2 CARD BY CHANGING A CAP AND REPLACING WITH A RESISTOR. |
| *312356205 | 1 | 133660 | 00 | 00 | NONE | EQUIVALENT TO 312356304. |
| 312356206 | 1 | 133670 | 00 | 00 | NONE | MODIFIED THE IFF2 CARD BY RELEASING NEW PROGRAM FILES FOR THE DPMC REDUCING THE DRIVE STRENGTH ON THE PCI BUS FOR THE CBDP FPGA (U117). ALSO PROVIDED THIS INTERRUPT PLUS A BIT IN A REGISTER THAT ALLOWS THE SOFTWARE TO KNOW WHEN THE CARD IS PROGRAMMED WITH THIS ADDITIONAL INTERRUPT. EQUIVALENT TO 312356305. |
| *312356303 | 1 | 133559 | 00 | 00 | NONE | INITIAL RELEASE FOR PROTOTYPE BUILD ONLY. |
| *312356304 | 1 | 133660 | 00 | 00 | NONE | CHANGE FOR RoHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE RoHS COMPLIANT PART. EQUIVALENT TO 312356205. |

FRU NAME IFF2
 PRODUCT NUMBER V2X2
 FAMID CODE 481
 FRUID NAME IFF2
 DESCRIPTION PWA, IFF2

| PART NUMBER | COMP NO | EC NO | SOFT | HEX F | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|--------|------|-------|------------|--|
| 312356305 | 1 | 133670 | 00 | 00 | NONE | <i>MODIFIED THE IFF2 CARD BY RELEASING NEW PROGRAM FILES FOR THE DPMC REDUCING THE DRIVE STRENGTH ON THE PCI BUS FOR THE CBDP FPGA (U117). ALSO PROVIDED THIS INTERRUPT PLUS A BIT IN A REGISTER THAT ALLOWS THE SOFTWARE TO KNOW WHEN THE CARD IS PROGRAMMED WITH THIS ADDITIONAL INTERRUPT. EQUIVALENT TO 312356206.</i> |

FRU NAME ACMI
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ACMI
 DESCRIPTION PWA, ACMI

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------|----------|----------|------------|--|
| *311883201 | 1 | 127515A | 00 | 00 | NONE | REACTIVE 201 LEVEL ACMI CARD. |
| *311883202 | 1 | 127656 | 00 | 00 | NONE | MODIFIED THE ACMI CARD BY CORRECTING 50 MHz ADT TIMING AND 2.5 V SUPPLY TO VSC880. |
| *311883203 | 1 | 127669 | 00 | 00 | NONE | MODIFIED THE ACMI CARD BY CORRECTING SOME VITESSE SWITCH FABRIC ISSUES ON FLASH PROM AND ALSO A FIX WAS DONE FOR A FAULT INJECT PROBLEM. |
| *311883204 | 1 | 127675 | 00 | 00 | NONE | MODIFIED THE ACMI CARD BY CHANGING RESISTOR FOR POWER SUPPLY CIRCUIT AND FLASH CHANGE FOR SWITCH FABRIC IMPROVEMENT. |
| *311883205 | 1 | 127686 | 00 | 00 | NONE | MODIFIED THE ACMI CARD TO REDUCE NOISE. |
| *311883205 | | 127691 | 00 | 00 | NONE | EQUIVALENT TO 311883504. |
| *311883206 | 1 | 127714 | 00 | 00 | NONE | MODIFIED THE ACMI CARD TO IMPROVE CACHE ACCESS RELIABILITY. EQUIVALENT TO 311883505. |
| *311883207 | 1 | 127733 | 00 | 00 | NONE | CHANGED TRANSCEIVER PART NUMBERS ON THE ACMI CARD FOR THE PURPOSE OF USING A SOLE VENDOR. |
| *311883207 | 1 | 127741A | 00 | 00 | NONE | EQUIVALENT TO 311883506. |
| *311883208 | 1 | 127765 | 00 | 00 | NONE | RELEASED EP22 FPGA PROGRAM TO FIX TIMING ISSUES. |
| *311883208 | 1 | 127741A | 00 | 00 | NONE | EQUIVALENT TO 311883507. |

NOTE: V2X MACHINES WITH IPX3 CARDS: REQUIRE ACMI CARDS AT OR HIGHER THAN THE FOLLOWING SPECIFIED LEVELS: ACMI PWA 311883505, EC 127714 OR ACMI PWA 311883207, EC 127733. SEE TECH TIP SVA276 IF NEEDED.

FRU NAME ACMI, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ACMI
 DESCRIPTION PWA, ACMI

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311883208 | 1 | 127846 | 00 | 00 | NONE | EQUIVALENT TO 311883508. |
| *311883209 | 1 | 127900 | 00 | 00 | NONE | MODIFIED THE ACMI CARD BECAUSE OF NO ERROR DETECTION CAPABILITY ON THE ADDRESS COUNTERS IN THE FPGA PROGRAMMING. ADDED ERROR DETECTION AND FORCING FOR THE ADDRESS COUNTERS WITH NEW FPGA PROGRAM. PROGRAM IS AT EP23. |
| *311883209 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311883510. |
| 311883210 | 2 | 133602 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311883510. |
| *311883504 | 1 | 127691 | 00 | 00 | NONE | MODIFIED THE ACMI CARD BY CHANGING RESISTOR VALUE ON POWER SUPPLY CIRCUIT FOR 2V. EQUIVALENT TO 311883205. |
| *311883505 | 1 | 127714 | 00 | 00 | NONE | MODIFIED THE ACMI CARD TO IMPROVE CACHE ACCESS RELIABILITY. EQUIVALENT TO 311883206. |
| *311883506 | 1 | 127733 | 00 | 00 | NONE | CHANGED TRANSCEIVER PART NUMBERS ON THE ACMI CARD FOR THE PURPOSE OF USING A SOLE VENDOR. |
| *311883506 | 1 | 127741A | 00 | 00 | NONE | EQUIVALENT TO 311883207. |
| *311883507 | 1 | 127765 | 00 | 00 | NONE | RELEASED EP22 FPGA PROGRAM TO FIX TIMING ISSUES. |

NOTE: V2X MACHINES WITH IPX3 CARDS: REQUIRE ACMI CARDS AT OR HIGHER THAN THE FOLLOWING SPECIFIED LEVELS: ACMI PWA 311883505, EC 127714 OR ACMI PWA 311883207, EC 127733. SEE TECH TIP SVA276 IF NEEDED.

FRU NAME ACMI, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ACMI
 DESCRIPTION PWA, ACMI

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311883507 | 1 | 127741A | 00 | 00 | NONE | EQUIVALENT TO 311883208. |
| *311883508 | 1 | 127846 | 00 | 00 | NONE | MODIFIED THE ACMI CARD TO PREVENT NOISY CLOCK SIGNALS FROM U78 AND FSC38BE FAILURES. EQUIVALENT TO 311883208. |
| *311883509 | 1 | 127900 | 00 | 00 | NONE | MODIFIED THE ACMI CARD BECAUSE OF NO ERROR DETECTION CAPABILITY ON THE ADDRESS COUNTERS IN THE FPGA PROGRAMMING. ADDED ERROR DETECTION AND FORCING FOR THE ADDRESS COUNTERS WITH NEW FPGA PROGRAM. PROGRAM IS AT EP23. |
| *311883509 | 1 | 127876 | 00 | 00 | 103169 | FB 103169 RELEASED FACTORY/FIELD MANDATORY. |
| *311883509 | 1 | 127949 | 00 | 00 | 103169 | F/B 103169 CHANGED TO FACTORY/FIELD EXCEPTIONAL. |
| 311883510 | 2 | 133602 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311883210. |

NOTE: V2X MACHINES WITH IPX3 CARDS: REQUIRE ACMI CARDS AT OR HIGHER THAN THE FOLLOWING SPECIFIED LEVELS: ACMI PWA 311883505, EC 127714 OR ACMI PWA 311883207, EC 127733. SEE TECH TIP SVA276 IF NEEDED.

FRU NAME ACMI2
 PRODUCT NUMBER V2X2, V2Xf
 FAMID CODE 481
 FRUID NAME ACMI
 DESCRIPTION PWA, ACMI2

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *312318202 | 1 | 127849 | 00 | 00 | NONE | INITIAL RELEASE |
| *312318203 | 1 | 127900 | 00 | 00 | NONE | MODIFIED THE ACMI2 CARD BECAUSE OF NO ERROR DETECTION CAPABILITY ON THE ADDRESS COUNTERS IN THE FPGA PROGRAMMING. ADDED ERROR DETECTION AND FORCING FOR THE ADDRESS COUNTERS WITH NEW FPGA PROGRAM. PROGRAM IS AT EP123. |
| *312318204 | 1 | 127941 | 00 | 00 | NONE | MODIFIED THE ACMI2 CARD TO PREVENT PROM FAILURES. EQUIVALENT TO 312318304. FB 103174 IS AN UPDATE ONLY. |
| *312318204 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 312318306. |
| 312318205 | 2 | 133589 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 312318309/310. |
| *312318303 | 1 | 127914 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. |
| *312318303 | 1 | 127876 | 00 | 00 | 103174 | FB 103174 RELEASED FACTORY/FIELD MANDATORY. |
| *312318304 | 1 | 127941 | 00 | 00 | NONE | MODIFIED THE ACMI2 CARD TO PREVENT PROM FAILURES. EQUIVALENT TO 312318204. FB 103174 IS AN UPDATE ONLY. |

NOTE: THE ACMI AND ACMI2 CARDS CAN BE INTERMIXED WITHIN ANY SUBSYSTEM THAT SUPPORTS IT. THE FRU ID ON THE ACMI2 CARD IS PROGRAMMED AS A CARD TYPE = ACMI. THE ONLY RESTRICTION ON USING ACMI2 CARDS IS THE CODE LEVEL AS SHOWN BELOW:

V2X OR V2X2: B01.06.23.00 LEVEL OR HIGHER OF MICROCODE.

FRU NAME ACMI2
 PRODUCT NUMBER V2X2, V2Xf
 FAMID CODE 481
 FRUID NAME ACMI
 DESCRIPTION PWA, ACMI2

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|--------|----------|----------|-------------|--|
| *312318305 | 1 | 127940 | 00 | 00 | NONE | MODIFIED THE ACMI2 CARD SO THAT THE ACMI2 IS ABLE TO USE ANY XILINX PROM. |
| *312318305 | 1 | 127949 | 00 | 00 | 103174 | F/B 103174 CHANGED TO FACTORY/FIELD EXCEPTIONAL. |
| *312318306 | 1 | 127995 | 00 | 00 | 103174 | MODIFIED THE ACMI2 BILL OF MATERIAL TO TRACK SCREENED VSC870 PARTS AND CHANGE FRUID EEPROM PN. EQUIVALENT TO 312318204. |
| *312318307 | 1 | 133508 | 00 | 00 | NONE | MODIFIED THE ACMI2 CARD BY DELAYING THE PROGRAMMING WITH THE INIT LINE DRIVEN BY THE CPLD UNTIL THE 1.8 VOLT IS STABLE. F/B 103174 IS AN UPDATE ONLY. |
| *312318308 | 2 | 133568 | 00 | 00 | NONE | MODIFIED THE ACM12 BILL OF MATERIAL TO TRACK SCREENED VSC870 PARTS & CHANGE FRUID EEPROM. EQUIVALENT TO 312318307/312318204. |
| 312318309 | 2 | 133589 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 312318205/310. |

NOTE: THE ACMI AND ACMI2 CARDS CAN BE INTERMIXED WITHIN ANY SUBSYSTEM THAT SUPPORTS IT. THE FRU ID ON THE ACMI2 CARD IS PROGRAMMED AS A CARD TYPE = ACMI. THE ONLY RESTRICTION ON USING ACMI2 CARDS IS THE CODE LEVEL AS SHOWN BELOW:

V2X OR V2X2: B01.06.23.00 LEVEL OR HIGHER OF MICROCODE.

FRU NAME ACMI2
 PRODUCT NUMBER V2X2, V2Xf
 FAMID CODE 481
 FRUID NAME ACMI
 DESCRIPTION PWA, ACMI2

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|--------|----------|----------|------------|--|
| 312318310 | 2 | 133589 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 312318205/309. |

NOTE: THE ACMI AND ACMI2 CARDS CAN BE INTERMIXED WITHIN ANY SUBSYSTEM THAT SUPPORTS IT. THE FRU ID ON THE ACMI2 CARD IS PROGRAMMED AS A CARD TYPE = ACMI. THE ONLY RESTRICTION ON USING ACMI2 CARDS IS THE CODE LEVEL AS SHOWN BELOW:

V2X OR V2X2: B01.06.23.00 LEVEL OR HIGHER OF MICROCODE.

FRU NAME AVM4
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, AVM4
 DESCRIPTION PWA, AVM4

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|--|---------|---------|----------|----------|------------|--|
| THIS PAGE DELETED. REFER TO PAGE 2-13 | | | | | | |
| *311884302 | 1 | 127529 | 00 | 00 | NONE | INITIAL RELEASE. FLASH AT 311895601 EP26. CPLD AT 311895501. |
| *311884302 | 1 | 127610A | 00 | 00 | NONE | EQUIVALENT TO 311884403. |
| *311884303 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502. EQUIVALENT TO 311884404. |
| *311884304 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27. EQUIVALENT TO 311884405. |
| *311884305 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO VSC870 VDDA TO REDUCE NOISE. EQUIVALENT TO 311884406. |
| *311884306 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311884407. |
| *311884307 | 1 | 127721 | 00 | 00 | NONE | REMOVED VOLTAGE REGULATOR CIRCUIT FROM VOLATILE CARDS TO IMPROVE NOISE MARGIN ON 3.3V. EQUIVALENT TO 311884408. |
| *311884308 | 1 | 127808 | 00 | 00 | NONE | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311884409/509. |
| *311884308 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311884409/510. |
| *311884308 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311884409/510/511. |

FRU NAME AVM4, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, AVM4
 DESCRIPTION PWA, AVM4

| PART NUMBER | COMP NO | EC NO | REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|--|----------|---------------|-----------|-----------|-------------|---|
| THIS PAGE DELETED. REFER TO PAGE 2-13 | | | | | | |
| 311884309 | 2 | 133577 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 31188410/512/315214202. |
| *311884403 | 1 | 127610A | 00 | 00 | NONE | GLUE CPLD AT 311895501. FLASH AT 311895602 EP27. EQUIVALENT TO 311884302. |
| *311884404 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502. EQUIVALENT TO 311884303. |
| *311884405 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27. EQUIVALENT TO 311884304. |
| *311884406 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO USE 870 VDDA FLASH AT 311895602 EP27 TO REDUCE NOISE. EQUIVALENT TO 311884305. |
| *311884407 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311884306. |
| *311884408 | 1 | 127721 | 00 | 00 | NONE | REMOVED VOLTQAGE REGULATOR CIRCUIT FROM VOLATILE CARDS TO IMPROVE NOISE MARGIN ON 3.3V. EQUIV. TO 311884307. |
| *311884409 | 1 | 127808 | 00 | 00 | NONE | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311884308/509. |

FRU NAME AVM4, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, AVM4
 DESCRIPTION PWA, AVM4

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
|-------------|---------|-------|----------|----------|------------|-------------------|

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|-------------------|---|--------|----|----|--------|--|
| *311884409 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311884308/510. |
| *311884409 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311884308/510/511. |
| 311884410 | 2 | 133577 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311884309/512/315214202. |
| *311884509 | 1 | 127782 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. CAPACITOR CHANGE ALSO NEEDED DUE TO HEIGHT LIMITATION ON ANGLED CONNECTOR. FLASH AT 311895603 EP29. EQUIVALENT TO 311884308/409. |
| *311884509 | 1 | 127876 | 00 | 00 | 103170 | FB 103170 RELEASED FACTORY/FIELD MANDATORY. |
| *311884509 | 1 | 127949 | 00 | 00 | 103170 | F/B 103170 CHANGED TO FACTORY/FIELD EXCEPTIONAL. |
| *311884510 | 1 | 127995 | 00 | 00 | 103170 | MODIFIED THE AVM4 BILL OF MATERIAL TO TRACK SCREENED VSC870 PARTS AND CHANGE FRUID EEPROM PN. EQUIVALENT TO 311884308/409. |
| *311884510 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311884308/409/511. |
| *311884510 | 1 | 133542 | 00 | 00 | NONE | EQUIVALENT TO 315214201 AND 311884308/409. |

FRU NAME AVM4, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PWA, AVM4
 DESCRIPTION PWA, AVM4

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|-------------------|---|---------------|-----------|-----------|-------------|--|
| *311884511 | 1 | 133507 | 00 | 00 | NONE | REPLACE FPGA WITH ASIC DEVICE AND ELIMINATED PROGRAMMING FLASH. EQUIVALENT TO 311884308/409/510. |
| 311884512 | 2 | 133577 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311884309/410/315214202. |
| *311884513 | 2 | 133577 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |

FRU NAME AVM8
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM8
 DESCRIPTION PWA, AVM8

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
|-------------|---------|-------|----------|----------|------------|-------------------|

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|-------------------|---|---------|----|----|------|---|
| *311896201 | 1 | 127500 | 00 | 00 | NONE | INITIAL RELEASE. FLASH AT 311895601 EP26. CPLD AT 311895501. |
| *311896201 | 1 | 127612A | 00 | 00 | NONE | REACTIVATE 201 LEVEL. CHANGE TO LOW JITTER OSCILLATOR. EQUIVALENT TO 311896302. |
| *311896202 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502.. EQUIVALENT TO 311896303. |
| *311896203 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27.EQUIVALENT TO 311896304. |
| *311896204 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO VSC870 VDDA TO REDUCE NOISE. EQUIVALENT TO 311896305. |
| *311896205 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311896306. |
| *311896206 | 1 | 127721 | 00 | 00 | NONE | REMOVED VOLTAGE REGULATOR CIRCUIT FROM VOLATILE CARDS TO IMPROVE NOISE MARGIN ON 3.3V. EQUIVALENT TO 311896307. |
| *311896207 | 1 | 127808 | 00 | 00 | NONE | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311896308/407. |
| *311896207 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311896308/408. |
| *311896207 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311896308/408/409. |

FRU NAME AVM8, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM8
 DESCRIPTION PWA, AVM8

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|-------------------|----------|---------------|-----------|-----------|-------------|--|
| 311896208 | 2 | 133578 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311896309/410/315215202. |
| *311896302 | 1 | 127612 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. FLASH AT 311895601 EP26. CPLD AT 311895501. |
| *311896302 | 1 | 127612A | 00 | 00 | NONE | EQUIVALENT TO 311896201. |
| *311896303 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502. EQUIVALENT TO 311896202. |
| *311896304 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27. EQUIVALENT TO 311896203. |
| *311896305 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO VSC870 VDDA TO REDUCE NOISE. EQUIVALENT TO 311896204. |
| *311896306 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311896205. |
| *311896307 | 1 | 127721 | 00 | 00 | NONE | REMOVED VOLTAGE REGULATOR CIRCUIT FROM VOLATILE CARDS TO IMPROVE NOISE MARGIN ON 3.3V. EQUIVALENT TO 311896206. |
| *311896308 | 1 | 127808 | 00 | 00 | NONE | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311896207/407. |

FRU NAME AVM8, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM8
 DESCRIPTION PWA, AVM8

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
|-------------|---------|-------|----------|----------|------------|-------------------|

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|-------------------|---|---------------|-----------|-----------|-------------|--|
| *311896308 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311896207/408. |
| *311896308 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311896207/408/409. |
| 311896309 | 2 | 133578 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311896208/410/315215202. |
| *311896407 | 1 | 127782 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. FLASH AT 311895603 EP29. EQUIVALENT TO 311896207/308. |
| *311896407 | 1 | 127808 | 00 | 00 | *103113 | INITIAL RELEASE. FB 103113 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *311896407 | 1 | 127876 | 00 | 00 | 103171 | FB 103171 RELEASED FACTORY/FIELD MANDATORY. |
| *311896407 | 1 | 127949 | 00 | 00 | 103171 | F/B 103171 CHANGED TO FACTORY/FIELD EXCEPTIONAL. |
| *311896408 | 1 | 127995 | 00 | 00 | 103171 | MODIFIED THE AVM8 BILL OF MATERIAL TO TRACK SCREENED VSC870 PARTS AND CHANGE FRUID EEPROM. EQUIVALENT TO 311896207/308. |
| *311896408 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311896207/308/409. |
| *311896408 | 1 | 133542 | 00 | 00 | NONE | EQUIVALENT TO 315215201 AND 311896207/308. |
| *311896409 | 1 | 133507 | 00 | 00 | NONE | REPLACED FPGA WITH ASIC DEVICE AND ELIMINATED PROGRAMMING FLASH. EQUIVALENT TO 311896207/308/408. |

FRU NAME AVM8, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM8
 DESCRIPTION PWA, AVM8

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|------------------|----------|---------------|-----------|-----------|-------------|--|
| 311896410 | 2 | 133578 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311896208/309/315215202. |
|------------------|----------|---------------|-----------|-----------|-------------|--|

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|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *311896411 | 2 | 133578 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
|-------------------|----------|---------------|-----------|-----------|-------------|---|

FRU NAME AVM16
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM16
 DESCRIPTION PWA, AVM16

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311897201 | 1 | 127501 | 00 | 00 | NONE | INITIAL RELEASE. FLASH AT 311895601 EP26. CPLD AT 311895501. |
| *311897201 | 1 | 127613A | 00 | 00 | NONE | REACTIVATE 201 LEVEL. CHANGE TO LOW JITTER OSCILLATOR. EQUIVALENT TO 311897302. |
| *311897202 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502. EQUIVALENT TO 311897303. |
| *311897203 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27. EQUIVALENT TO 311897304. |
| *311897204 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO VSC870 VDDA TO REDUCE NOISE. EQUIVALENT TO 311897305. |
| *311897205 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311897306. |
| *311897206 | 1 | 127721 | 00 | 00 | NONE | REMOVED VOLTAGE REGULATOR CIRCUIT FROM VOLATILE CARDS TO IMPROVE NOISE MARGIN ON 3.3V. EQUIVALENT TO 311897307. |
| *311897207 | 1 | 127808 | 00 | 00 | NONE | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311897308/407. |
| *311897207 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311897308/408. |
| *311897207 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311897308/408/409. |

FRU NAME AVM16, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM16
 DESCRIPTION PWA, AVM16

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|-------------------|----------|---------------|-----------|-----------|-------------|--|
| 311897208 | 2 | 133579 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311897309/410/315216202. |
| *311897302 | 1 | 127613 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. FLASH AT 311895601 EP26. CPLD AT 311895501. |
| *311897302 | 1 | 127613A | 00 | 00 | NONE | EQUIVALENT TO 311897201. |
| *311897303 | 1 | 127665 | 00 | 00 | NONE | MODIFIED THE GLUE CPLD FOR ENHANCED RESET CONTROL AND STABILITY. GLUE CPLD AT 311895502. EQUIVALENT TO 311897202. |
| *311897304 | 1 | 127669 | 00 | 00 | NONE | FSC F31E LINK LEVEL TIMEOUTS CAUSED BY PROBLEMS ON THE LVDS INTERFACE BETWEEN THE AMPORT FPGA'S. FLASH AT 311895602 EP27. EQUIVALENT TO 311897203. |
| *311897305 | 1 | 127686 | 00 | 00 | NONE | ADD CAPACITOR TO VSC870 VDDA FLASH AT 311895602 EP27 TO REDUCE NOISE. EQUIVALENT TO 311897204. |
| *311897306 | 1 | 127714 | 00 | 00 | NONE | ADD CAPACITOR TO OSCILLATORS TO REDUCE JITTER. EQUIVALENT TO 311897205. |
| *311897307 | 1 | 127721 | 00 | 00 | NONE | REMOVED VOLTAGE REGULATOR CIRCUIT FROM VOLATILE CARDS TO IMPROVE NOISE MARGIN ON 3.3V. EQUIVALENT TO 311897206. |
| *311897308 | 1 | 127808 | 00 | 00 | NONE | CHANGED FLASH PROGRAM LEVEL TO 311895603 EP29 TO ENHANCE SDRAM EDAC COVERAGE. EQUIVALENT TO 311897207/407. |

FRU NAME AVM16, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM16
 DESCRIPTION PWA, AVM16

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
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|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311897308 | 1 | 127995 | 00 | 00 | NONE | EQUIVALENT TO 311897207/408. |
| *311897308 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311897207/408/409. |
| 311897309 | 2 | 133579 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311897208/410/315216202. |
| *311897407 | 1 | 127782 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. FLASH AT 311895603 EP29. EQUIVALENT TO 311897207/308. |
| *311897407 | 1 | 127876 | 00 | 00 | 103172 | FB 103172 RELEASED FACTORY/FIELD MANDATORY. |
| *311897407 | 1 | 127949 | 00 | 00 | 103172 | F/B 103172 CHANGED TO FACTORY/FIELD EXCEPTIONAL. |
| *311897408 | 1 | 127995 | 00 | 00 | 103172 | MODIFIED THE AVM16 BILL OF MATERIAL TO TRACK SCREENED VSC870 PARTS AND CHANGE FRUID EEPROM. EQUIVALENT TO 311897207/308. |
| *311897408 | 1 | 133507 | 00 | 00 | NONE | EQUIVALENT TO 311897207/308/409. |
| *311897408 | 1 | 133542 | 00 | 00 | NONE | EQUIVALENT TO 311897207/308 AND 315216201. |
| *311897409 | 1 | 133507 | 00 | 00 | NONE | REPLACED FPGA WITH ASIC DEVICE AND ELIMINATED PROGRAMMING FLASH. EQUIVALENT TO 311897207/308/408. |

FRU NAME AVM16, CONT
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM16
 DESCRIPTION PWA, AVM16

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
|-------------|---------|-------|----------|----------|------------|-------------------|

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|------------------|----------|---------------|-----------|-----------|-------------|--|
| 311897410 | 2 | 133579 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311897208/309/315216202. |
|------------------|----------|---------------|-----------|-----------|-------------|--|

| | | | | | | |
|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *311897411 | 2 | 133579 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
|-------------------|----------|---------------|-----------|-----------|-------------|---|

FRU NAME ICE2
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ICE2
 DESCRIPTION ICEBERG CHANNEL ESCON

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *307628604 | 1 | 122143 | 00 | 00 | NONE | INITIAL RELEASE. EQUIVALENT TO 307628705. |
| 307628605 | 2 | 133593 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 307628706. |
| 307628605 | 2 | 133721 | 00 | 00 | NONE | EQUIV. TO 307628707 |
| *307628705 | 1 | 127571 | 00 | 00 | NONE | MODIFIED ICE2 CARD BY REMOVING MACH221 PART DUE TO PART NOT BEING AVAILABLE BY THE MANUFACTURER. |
| *307628705 | 1 | 127571A | 00 | 00 | NONE | EQUIVALENT TO 307628604. |
| *307628706 | 2 | 133593 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 307628605. |
| 307628707 | 2 | 133721 | 00 | 00 | NONE | MODIFIED THE ICE2 CARD BY REPLACING AN END OF LIFE PART. EQUIV. TO 307628605. |

FRU NAME ICE3
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ICE3
 DESCRIPTION PWA, ICE3

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *311828202 | 1 | 122058A | 00 | 00 | NONE | INITIAL RELEASE. |
| *311828202 | 1 | 127681 | 00 | 00 | NONE | EQUIVALENT TO 311828203/303/304. |
| *311828203 | 1 | 127557 | 00 | 00 | NONE | MODIFIED THE ICE3 CARD BY REPLACING THE SMT LED WITH A THROUGH-HOLE LED. |
| *311828203 | 1 | 127556 | 00 | 00 | NONE | EQUIVALENT TO 311828303. |
| *311828203 | 1 | 127572 | 00 | 00 | NONE | EQUIVALENT TO 311828304. |
| *311828203 | 1 | 127681 | 00 | 00 | NONE | EQUIVALENT TO 311828202/303/304. |
| 311828204 | 2 | 133594 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311828305. |
| 311828204 | 2 | 133720 | 00 | 00 | NONE | EQUIVALENT TO 311828306. |
| *311828303 | 1 | 127556 | 00 | 00 | NONE | INITIAL RELEASE OF IMBED. EQUIVALENT TO 311828203. |
| *311828303 | 1 | 127681 | 00 | 00 | NONE | EQUIVALENT TO 311828202/203/304. |
| <u>*311828304</u> | 1 | 127572 | 00 | 00 | NONE | MODIFIED ICE3 CARD BY REMOVING MACH221 PART DUE TO PART NOT BEING AVAILABLE BY THE MANUFACTURER. EQUIVALENT TO 311828203. |
| *311828304 | 1 | 127681 | 00 | 00 | NONE | EQUIVALENT TO 311828202/203/303. |
| *311828304 | 1 | 133510 | 00 | 00 | NONE | EQUIVALENT TO 311828203. |
| *311828305 | 2 | 133594 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311828204. |

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|----------------|-----------|
| FRU NAME | ICE3 |
| PRODUCT NUMBER | V2X |
| FAMID CODE | 481 |
| FRUID NAME | ICE3 |
| DESCRIPTION | PWA, ICE3 |

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|--|
| 311828306 | 2 | 133720 | 00 | 00 | NONE | MODIFIED THE ICE3 CARD BY REPLACING AN END OF LIFE PART. EQUIV. TO 311828204. |

FRU NAME IPX5
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IPX5
 DESCRIPTION PWA, IPX5

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|----------------|-----------|-----------|-------------|--|
| *312359202 | 1 | 127999 | 00 | 00 | NONE | INITIAL RELEASE. |
| 312359203 | 2 | 133586 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 312359203 | 2 | 133646A | 00 | 00 | NONE | EQUIVALENT TO 312359204. |
| 312359204 | 2 | 133646 | 00 | 00 | NONE | MODIFIED THE IPX5 CARD BY REPLACING AN END OF LIFE PART. |
| 312359204 | 2 | 133646A | 00 | 00 | NONE | EQUIVALENT TO 312359203. |

NOTE: REQUIRES MICROCODE B01.09.16.00/G01.04.31.00 OR HIGHER.

FRU NAME ICF3, MULTI
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ICF3, MULTI
 DESCRIPTION ICF3, MULTI-LINK

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|--|
| *312315201 | 1 | 127620 | 00 | 00 | NONE | INITIAL RELEASE. |
| *312315202 | 1 | 127659 | 00 | 00 | NONE | MODIFIED THE ICF3 CARD FOR BETTER RELIABILITY. |
| *312315202 | 1 | 127670 | 00 | 00 | NONE | NO LONGER USED. SEE PWA PN 311894303 BELOW. |
| *311894303 | 1 | 127670 | 00 | 00 | NONE | MODIFIED THE ICF3 CARD TO FIX FSC 3330. CHANGED 2 PROGRAMMABLES. |
| *311894304 | 1 | 127680 | 00 | 00 | NONE | MODIFIED THE ICF3 CARD TO FIX 3330 FSC PROBLEM. |
| *311894305 | 1 | 127738 | 00 | 00 | NONE | MODIFIED THE ICF3 CARD TO FIX A GFR POWER UP PROBLEM. |
| 311894306 | 1 | 127763 | 00 | 00 | NONE | MODIFIED THE ICF3 CARD BY RECOMPILING SOURCE CODE FOR AEQ PART. |
| *311894306 | 1 | 127763A | 00 | 00 | NONE | EQUIVALENT TO 311894405. |
| *311894405 | 1 | 127763A | 00 | 00 | NONE | INITIAL RELEASE. RECOMPILED SOURCE CODE FOR AEQ PART. EQUIVALENT TO 311894306. |
| 311894307 | 2 | 133613 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311894406. |
| 311894406 | 2 | 133613 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311894307. |

FRU NAME IPX2
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IPX2
 DESCRIPTION PWA, IPX2

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *311893404 | 1 | 127606 | 00 | 00 | NONE | MODIFIED THE IPX2 CARD FOR BETTER RELIABILITY. |
| *311893404 | 1 | 127734 | 00 | 00 | NONE | V2X MACHINES WITH IPX CARDS: CANNOT MIX IPX2 CARDS WITH IPX3 CARDS. V2X2 MACHINES: IPX2 CARDS NOT ALLOWED. |
| *311893405 | 1 | 127743 | 00 | 00 | NONE | MODIFIED THE PHASE CLOCKS PROGRAMMABLE DUE TO LACK OF ASYNCHRONOUS INPUT REGISTRY. |
| *311893406 | 1 | 127794 | 00 | 00 | NONE | MODIFIED THE IPX2 CARD FOR BETTER RELIABILITY. |
| 311893407 | 2 | 133611 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |

FRU NAME IPX3
 PRODUCT NUMBER V2XV2
 FAMID CODE 481
 FRUID NAME IPX3
 DESCRIPTION PWA, IPX3

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------|----------|----------|------------|--|
| *312312202 | 1 | 127692A | 00 | 00 | NONE | INITIAL RELEASE. |
| *312312203 | 1 | 127720 | 00 | 00 | NONE | MODIFIED THE IPX3 CARD TO ALLOW STATE SAVE TO BE GENERATED. |
| *312312203 | 1 | 127734 | 00 | 00 | NONE | V2X MACHINES WITH IPX3 CARDS: CANNOT MIX IPX3 CARDS WITH IPX2 CARDS. IPX3 REQUIRES MICROCODE LEVEL B01.04.XX OR HIGHER. V2X2 MACHINES: ONLY IPX3 CARDS CAN BE USED. |
| *312312203 | 1 | 127741 | 00 | 00 | NONE | V2X MACHINES WITH IPX3 CARDS: REQUIRE ACMI CARDS AT OR HIGHER THAN THE FOLLOWING SPECIFIED LEVELS: ACMI PWA: 311883506, EC 127733 OR ACMI PWA: 311883207, EC 127733. |
| *312312203 | 1 | 127741A | 00 | 00 | NONE | DESCRIPTION OF PREVIOUS EC CLARIFICATION:V2X MACHINES WITH IPX3 CARDS: REQUIRE ACMI CARDS AT OR HIGHER THAN THE FOLLOWING SPECIFIED LEVELS: ACMI PWA: 311883505, EC 127714 OR ACMI PWA: 311883207, EC 127733. SEE TECH TIP SVA276 IF NEEDED. |
| *312312204 | 1 | 127743 | 00 | 00 | NONE | MODIFIED THE PHASE CLOCKS PROGRAMMABLE DUE TO LACK OF ASYNCHRONOUS INPUT REGISTRY. |
| *312312205 | 1 | 127794 | 00 | 00 | NONE | MODIFIED THE IPX3 CARD FOR BETTER RELIABILITY. |

NOTE: V2X MACHINES WITH IPX3 CARDS: REQUIRE ACMI CARDS AT OR HIGHER THAN THE FOLLOWING SPECIFIED LEVELS: ACMI PWA 311883505, EC 127714 OR ACMI PWA 311883207, EC 127733. SEE TECH TIP SVA276 IF NEEDED.

FRU NAME IPX3 (CONT)
 PRODUCT NUMBER V2XV2
 FAMID CODE 481
 FRUID NAME IPX3
 DESCRIPTION PWA, IPX3

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|--------|----------|----------|------------|---|
| *312312206 | 1 | 133545 | 00 | 00 | 103269 | MOTOROLA PROCESSORS HAVE BEEN FOUND TO HAVE A DESIGN FLAW WHICH GETS WORSE OVER TIME. REPLACE MOTOROLA PROCESSOR WITH AN IBM PROCESSOR. |
| *312312207 | 2 | 133587 | 00 | 00 | 103269 | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 312312208 | 2 | 133725 | 00 | 00 | 103269 | MODIFIED THE IPX3 CARD TO REPLACE AN END OF LIFE PART. |

NOTE: V2X MACHINES WITH IPX3 CARDS: REQUIRE ACMI CARDS AT OR HIGHER THAN THE FOLLOWING SPECIFIED LEVELS: ACMI PWA 311883505, EC 127714 OR ACMI PWA 311883207, EC 127733. SEE TECH TIP SVA276 IF NEEDED.

FRU NAME ISP3
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ISP3
 DESCRIPTION PWA, ISP3

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|--|
| *311855407 | 1 | 127534 | 00 | 00 | NONE | MODIFIED THE ISP3 CARD BY PUTTING THE VIRTEX FPGA AND 128K PROM BACK ON THE BOARD. SLAVE ISP CARD FAILS WHEN IML'ING SO PULLUPS ARE REQUIRED ON THE 68EN360. THIS CARD IS AGENCY-COMPLIANT CERTIFIED FOR CONTINUOUS ETHERNET CONNECTION. DOWNWARD COMPATIBLE WITH THE 306 LEVEL ISP3 CARD. |
| *311855408 | 1 | 127736 | 00 | 00 | NONE | MODIFIED THE ISP3 CARD BY CHANGING THE INPUT CAPACITOR VALUE TO IMPROVE START UP OF OSCILLATOR. EQUIVALENT TO 312305202. |
| *311855408 | | 127558 | 00 | 00 | NONE | EQUIVALENT TO 312305201. |
| *311855409 | 1 | 127842 | 00 | 00 | NONE | MODIFIED THE ISP3 CARD BY UPDATING THE FLASH PROM CODE. EQUIVALENT TO 312305203. |
| 311855410 | 2 | 133588 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 312305204. |
| 311855410 | 2 | 133724 | 00 | 00 | NONE | EQUIVALENT TO 312305205. |
| *312305201 | 1 | 127558 | 00 | 00 | NONE | COST REDUCTION. EQUIVALENT TO 311855407. |
| *312305202 | 1 | 127736 | 00 | 00 | NONE | MODIFIED THE ISP3 CARD BY CHANGING THE INPUT CAPACITOR VALUE TO IMPROVE START UP OF OSCILLATOR. EQUIVALENT TO 311855408. |

FRU NAME ISP3
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ISP3
 DESCRIPTION PWA, ISP3

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|---|
| *312305203 | 1 | 127842 | 00 | 00 | NONE | MODIFIED THE ISP3 CARD BY UPDATING THE FLASH PROM CODE. EQUIVALENT TO 311855409. |
| *312305204 | 2 | 133588 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 311855410. |
| 312305205 | 2 | 133724 | 00 | 00 | NONE | MODIFIED THE ISP3 CARD BY REPLACING AN END OF LIFE PART. EQUIV. TO 311855410. |

FRU NAME ISP3A
 PRODUCT NUMBER V2Xf
 FAMID CODE 481
 FRUID NAME ISP3A
 DESCRIPTION PWA, ISP3A

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *312330303 | 1 | 127785 | 00 | 00 | NONE | MODIFIED THE ISP3A CARD WITH ADDITIONAL FUNCTIONALITY. |
| *312330304 | 1 | 127812 | 00 | 00 | NONE | MODIFIED THE ISP3A CARD FOR RELEASE OF SIML/VIP VERSION 2.6.0.0. |
| *312330304 | 1 | 127902 | 00 | 00 | NONE | RELEASE COMPAT PAGE FOR ISP3A CARD. |
| *312330305 | 2 | 133591 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 312330306 | 2 | 133651 | 00 | 00 | NONE | MODIFIED THE ISP3A CARD TO SUPPORT VIP ON V2X MACHINES,SUPPORT DOP ON V2X2 MACHINES AND ENABLE VIP TO SUPPORT VSM MACHINE TYPES. |

FRU NAME ITCC2
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ITCC2
 DESCRIPTION PWA, ITCC2

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|---|
| *311867302 | 1 | 122463 | 00 | 00 | NONE | INITIAL RELEASE. |
| 311867303 | 2 | 133615 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |

FRU NAME AVM4 ASSEMBLY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM4 ASSEMBLY
 DESCRIPTION AVM4 ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *315213401 | 1 | 133542 | 00 | 00 | NONE | INITIAL RELEASE. |
| 315213402 | 2 | 133577 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. AVM4 CARDS 311884309/410/512/315214202 ARE EQUIVALENT. |

FRU NAME AVM8 ASSEMBLY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM8 ASSEMBLY
 DESCRIPTION AVM8 ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|--|
| *315217401 | 1 | 133542 | 00 | 00 | NONE | INITIAL RELEASE. |
| 315217402 | 2 | 133578 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. VSM4 CARDS 311896208/309/410/315215202 ARE EQUIVALENT. |

FRU NAME AVM16 ASSEMBLY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AVM16 ASSEMBLY
 DESCRIPTION AVM16 ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|---|
| *315214001 | 1 | 133542 | 00 | 00 | NONE | INITIAL RELEASE. |
| 315214002 | 2 | 133579 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. AVM16 CARDS 311897208/309/410/315216202 ARE EQUIVALENT. |

FRU NAME ANV ASSEMBLY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME ANV ASSEMBLY
 DESCRIPTION ANV ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|---|
| *315213901 | 1 | 133542 | 00 | 00 | NONE | INITIAL RELEASE. |
| 315213902 | 2 | 133580 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. ANV CARDS 311898308/409/510/315217202 ARE EQUIVALENT. |

FRU NAME VIP UCODE FLOPPY MICROCODE
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME VIP UCODE
 DESCRIPTION UCODE FLOPPY MICROCODE, VIP

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|------------|---------------|-------------|-------------|---------------|---|
| *312325501 | 1 | 127660 | 00 | 00 | NONE | INITIAL RELEASE. |
| 312325502 | 1 | 133656 | 00 | 00 | NONE | INITIAL RELEASE MCODE VIP4.1.1.12. |

FRU NAME FLOPPY MICROCODE
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME
 DESCRIPTION FLOPPY MICROCODE B01.XX.XX.XX

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------|----------|----------|----------------|---|
| *312327301 | 1 | 127679 | 00 | 00 | *346815 | INITIAL RELEASE. |
| *312327301 | 1 | 127724 | 00 | 00 | NONE | SPARE STATUS |
| *312327302 | 1 | 127724 | 00 | 00 | *346869 | INITIAL RELEASE MICROCODE LEVEL B01.02.00.00. F/B 346869 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. F/B 346815 IS AN UPDATE ONLY. |
| *312327302 | 1 | 127735 | 00 | 00 | NONE | SPARE STATUS |
| *312327303 | 1 | 127735 | 00 | 00 | NONE | INITIAL RELEASE MICROCODE LEVEL B01.04.05.00. FB 346815 AND 346869 ARE UPDATES ONLY. |
| *312327304 | 1 | 127756 | 00 | 00 | *346871 | INITIAL RELEASE MICROCODE LEVEL B01.04.11.00 F/B 346871 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL.F\B 346815 IS AN UPDATE ONLY. |
| *312327305 | 1 | 127767 | 00 | 00 | *346882 | INITIAL RELEASE MICROCODE LEVEL B01.05.01.00. F/B 346882 IS RELEASED FACTORY/ FIELD MANDATORY. F/B 346815 IS AN UPDATE ONLY. |
| *312327305 | | 127772 | 00 | 00 | *346882 | SPARE STATUS. |
| *312327306 | 1 | 127772 | 00 | 00 | *346886 | INITIAL RELEASE MICROCODE LEVEL B01.05.54.00. FB 346886 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327307 | 1 | 127847 | 00 | 00 | *103132 | INITIAL RELEASE MICROCODE LEVEL B01.06.23.00. FB 103132 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327307 | 1 | 127847A | 00 | 00 | *103132 | FB 103132 CHANGED TO FACTORY MANDATORY/FIELD MANDATORY. |

FRU NAME FLOPPY MICROCODE
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME
 DESCRIPTION FLOPPY MICROCODE B01.XX.XX.XX

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------|----------|----------|----------------|--|
| *312327307 | | 127907 | 00 | 00 | *103132 | SPARE STATUS |
| *312327308 | 1 | 127907 | 00 | 00 | *103191 | INITIAL RELEASE OF MCODE LEVEL B01.07.20.00. FB 103191 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327308 | | 127930 | 00 | 00 | *103191 | MICROCODE LEVEL B01.07.20.00/01 IS CHANGING TO FACTORY/FIELD MANDATORY. |
| *312327308 | | 127956 | 00 | 00 | *103191 | SPARE STATUS. |
| *312327309 | 1 | 127956 | 00 | 00 | 103219 | INITIAL RELEASE MCODE LEVEL B01.08.14.00. FB 103219 IS RELEASED FACTORY/FIELD EXCEPTIONAL. |
| *312327309 | 1 | 127956A | 00 | 00 | 103219 | F/B RELEASE CHANGED TO FACTORY/FIELD MANDATORY. |
| *312327309 | 1 | 133501 | 00 | 00 | NONE | SPARE STATUS. |
| *312327310 | 1 | 133501 | 00 | 00 | *103236 | INITIAL RELEASE MCODE LEVEL B01.09.16.00. F/B 103236 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327310 | 1 | 133524 | 00 | 00 | *103236 | SPARE STATUS. |
| *312327311 | 1 | 133524 | 00 | 00 | *103249 | INITIAL RELEASE MCODE LEVEL B01.09.24.00. FB 103249 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327311 | 1 | 133540 | 00 | 00 | *103249 | SPARE STATUS. |
| *312327312 | 1 | 133540 | 00 | 00 | *103267 | INITIAL RELEASE MCODE LEVEL B01.10.23.00. FB 103267 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |

FRU NAME FLOPPY MICROCODE
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME
 DESCRIPTION FLOPPY MICROCODE B01.XX.XX.XX

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|---------------|---|
| *312327312 | 1 | 133548 | 00 | 00 | *103267 | SPARE STATUS. |
| *312327313 | 1 | 133548 | 00 | 00 | *103271 | INITIAL RELEASE MCODE LEVEL B01.10.24.00. FB 103271 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327313 | 1 | 133575 | 00 | 00 | *103271 | SPARE STATUS |
| *312327314 | 1 | 133575 | 00 | 00 | *103298 | INITIAL RELEASE MCODE LEVEL B01.11.14.00. FB 103298 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327314 | 1 | 133638 | 00 | 00 | *103298 | SPARE STATUS |
| *312327315 | 1 | 133638 | 00 | 00 | 106271 | INITIAL RELEASE MICROCODE LEVEL B01.12.30.00. FIELD BILL 106271 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312327315 | 1 | 133638A | 00 | 00 | 106271 | EC CHANGED TO FACTORY MANDATORY/FIELD MANDATORY. |
| *312327315 | 1 | 133693 | 00 | 00 | *106271 | SPARE STATUS |
| 312327316 | 1 | 133693 | 00 | 00 | 106295 | INITIAL RELEASE MICROCODE LEVEL B01.13.19.00. FIELD BILL 106295 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| 312327316 | 1 | 133735 | 00 | 00 | 106295 | SPARE STATUS |
| 312327317 | 1 | 133735 | 00 | 00 | 105495 | INITIAL RELEASE MICROCODE LEVEL B01.14.17.00. FIELD BILL 105495 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |

FRU NAME NON-DISTRUPTIVE UPGRADE FLOPPY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME
 DESCRIPTION NON-DISTRUPTIVE UPGRADE FLOPPY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|--------|----------|----------|------------|---|
| *312384301 | 1 | 127930 | 00 | 00 | 103191 | INITIAL RELEASE OF MCODE LEVEL B01.07.20.00/01. FB 103191 RELEASED FACTORY/FIELD MANDATORY. |

FRU NAME CD MICROCODE
 PRODUCT NUMBER V2Xf
 FAMID CODE 481
 FRUID NAME
 DESCRIPTION CD MICROCODE G01.XX.XX.XX

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------|----------|----------|------------|--|
| *312367001 | 1 | 127841 | 00 | 00 | *103130 | INITIAL RELEASE OF MCODE LEVEL G01.00.27.00. FB 103130 RELEASED FACTORY/FIELD MANDATORY. |
| *312367001 | 1 | 127851 | 00 | 00 | *103130 | SPARE STATUS |
| *312367002 | 1 | 127851 | 00 | 00 | *103134 | INITIAL RELEASE MICROCODE LEVEL G01.01.21.00. FB 103134 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367003 | 1 | 127906 | 00 | 00 | *103189 | INITIAL RELEASE MICROCODE LEVEL G01.02.52.00. FB 103189 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367004 | 1 | 127957 | 00 | 00 | *103221 | INITIAL RELEASE MCODE LEVEL G01.03.24.00. FB 103221 RELEASED FACTORY/FIELD EXCEPTIONAL. |
| *312367004 | 1 | 127957A | 00 | 00 | *103221 | F/B RELEASE CHANGED TO FACTORY/FIELD MANDATORY. |
| *312367004 | 1 | 133502 | 00 | 00 | NONE | SPARE STATUS |
| *312367005 | 1 | 133502 | 00 | 00 | *103238 | <i>INITIAL RELEASE MCODE LEVEL G01.04.31.00. FB 103238 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL.</i> |
| *312367005 | 1 | 133534 | 00 | 00 | *103238 | SPARE STATUS. |
| *312367006 | 1 | 133534 | 00 | 00 | 103261 | INITIAL RELEASE MCODE LEVEL G02.00.19.00. FB 103261 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367006 | 1 | 133549 | 00 | 00 | 103261 | SPARE STATUS. |

FRU NAME CD MICROCODE
 PRODUCT NUMBER V2Xf
 FAMID CODE 481
 FRUID NAME
 DESCRIPTION CD MICROCODE G01.XX.XX.XX

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|----------------|---|
| *312367007 | 1 | 133549 | 00 | 00 | *103273 | INITIAL RELEASE MCODE LEVEL G02.00.20.00. FB 103273 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367007 | 1 | 133556 | 00 | 00 | *103273 | SPARE STATUS |
| *312367008 | 1 | 133556 | 00 | 00 | *103289 | INITIAL RELEASE MCODE LEVEL G02.00.56.00. FB 103289 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367008 | 1 | 133585 | 00 | 00 | *103289 | SPARE STATUS. |
| *312367009 | 1 | 133585 | 00 | 00 | *106256 | INITIAL RELEASE MCODE LEVEL G02.01.31.00. F/B 106256 IS RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367009 | 1 | 133639 | 00 | 00 | *106256 | SPARE STATUS |
| *312367010 | 1 | 133639 | 00 | 00 | *106273 | INITIAL RELEASE MICROCODE LEVEL G02.02.33.00. F/B 106273 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367010 | 1 | 133671 | 00 | 00 | *106273 | SPARE STATUS |
| *312367011 | 1 | 133671 | 00 | 00 | *106279 | INITIAL RELEASE MICROCODE LEVEL G02.02.38.00. F/B 106279 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |
| *312367012 | 1 | 133691 | 00 | 00 | *106293 | INITIAL RELEASE MICROCODE LEVEL G02.02.40.00. F/B 106293 RELEASED FACTORY MANDATORY/FIELD MANDATORY. |
| 312367013 | 1 | 133700 | 00 | 00 | 106299 | INITIAL RELEASE MICROCODE LEVEL G02.02.50.00. F/B 106299 RELEASED FACTORY MANDATORY/FIELD MANDATORY. |

FRU NAME CD MICROCODE
 PRODUCT NUMBER V2Xf
 FAMID CODE 481
 FRUID NAME
 DESCRIPTION CD MICROCODE G01.XX.XX.XX

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|------------|---------------|-------------|-------------|---------------|---|
| 312367013 | 1 | 133702 | 00 | 00 | 106299 | SPARE STATUS. |
| 312367014 | 1 | 133702 | 00 | 00 | 107601 | INITIAL RELEASE MICROCODE LEVEL G02.03.34.00. F/B 107601 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |

FRU NAME BATTERY
PRODUCT NUMBER V2X
FAMID CODE 481
FRUID NAME BATTERY
DESCRIPTION BATTERY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|----------------|------------|--------|-------------|-------------|---------------|-------------------|
| 307645801 | 1 | 122181 | 00 | 00 | NONE | INITIAL RELEASE. |

FRU NAME FAN ASSEMBLY, LOGIC POWER
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME FAN ASSEMBLY, LOGIC POWER
 DESCRIPTION FAN ASSEMBLY, LOGIC POWER

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|--------|----------|----------|------------|---|
| * 307644503 | 1 | 122171 | 00 | 00 | NONE | MODIFY ASSEMBLY FOR PRE-PRO RELEASE. |
| *315505501 | 2 | 133544 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 315505502 | 2 | 133696 | 00 | 00 | NONE | MODIFIED THE LOGIC POWER FAN ASSEMBLY BY SWITCHING TO A MORE COST EFFECTIVE FAN ASSEMBLY. |

FRU NAME POWER DISTRIBUTION ASSEMBLY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME POWER DISTRIBUTION ASSEMBLY
 DESCRIPTION POWER DISTRIBUTION ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|--|
| *314310804 | 1 | 116993 | 00 | 00 | NONE | MODIFIED THE AUXR POWER SUPPLY. |
| *314310805 | 1 | 116992 | 00 | 00 | NONE | MODIFIED THE AUXR POWER SUPPLY. |
| *314310806 | 1 | 116992 | 00 | 00 | NONE | MODIFIED TO ADD CAP300 POWER SUPPLY. |
| 314310807 | 1 | 128016 | 00 | 00 | NONE | MODIFIED TO ADD VIEW TO CLARIFY WIRING. |
| *314337001 | 2 | 128104 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 314337002 | 1 | 128125 | 00 | 00 | NONE | EXISTING PDU DOES NOT CONSISTANTLY DETECT AN "OUT OF TOLERANCE" CONDITION FOR THE V2X LOGIC POWER SUPPLY. |

FRU NAME PS ARRAY PS
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PS ASSEMBLY ARRAY
 DESCRIPTION ARRAY POWER SUPPLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------|----------|----------|--------------------------------------|--|
| *314303502 | 1 | 116971 | 00 | 00 | NONE | MODIFIED THE I3P2 CARD. |
| *314303503 | 1 | 116988 | 00 | 00 | NONE | MODIFIED THE I3P2 CARD FOR BETTER RELIABILITY. |
| *314303503 | | 128002 | 00 | 02 | NONE | CORRECTION TO THE FRU ID DESIGNATION FOR PROPER PROGRAMMING. |
| *314303504 | 1 | 116998 | 00 | 02 | NONE | IMPROVE THERMAL CONDITIONS ON U600 (UCC3804) BY REDUCING THE INPUT ON VCC AND SLIGHTLY SLOWING THE TURNOFF ON Q600 MOSFET. |
| *314303505 | 1 | 128011 | 00 | 02 | NONE | ELIMINATE THE SYNC NETWORK TO ELIMINATE THE NOISE PICKUP AND LET THE 12V CONVERTER RUN OFF ITS OWN INDEPENDENT CLOCK. |
| *314303506 | 1 | 128017 | 00 | 00 | NONE | REWORK I3P3 CARD TO REDUCE NOISE. |
| *314303507 | 1 | 128035 | 00 | 00 | NONE | REPLACE U600 (UCC3804) WITH LINEAR TECH LT1241 (I3P1). |
| *314303507 | 1 | 128035A | 00 | 00 | 102510 102511 102512 102513 | FIELD BILLS RELEASED EXCEPTIONAL. USES I3P1 314318204 WHICH IS EQUIVALENT TO 311504510. |
| *314303508 | 1 | 128066 | 00 | 00 | NONE | MODIFIED THE I3P1 CARD BY REPLACING Q600 MOSFET TO PREVENT FAILURES. FB'S 102510/511/512 ARE UPDATES ONLY. |
| *314303509 | 1 | 127991 | 00 | 00 | NONE | MODIFIED DCPS ARRAY BY ENHANCING INSULATOR TO INCREASE AIR INLET. FB'S 102510/511/512 ARE UPDATES ONLY. |

FRU NAME PS ARRAY PS
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PS ASSEMBLY ARRAY
 DESCRIPTION ARRAY POWER SUPPLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|--|
| 314303510 | 1 | 128072 | 00 | 00 | NONE | MODIFIED THE I3P3 CARD BY REPLACING THE 270UF CAPACITANCE AT C308 WITH A 1UF CAPACITANCE AND ADDING 9220UF CAPACITANCE ONTO FAN_POWER. |
| *314337201 | 2 | 128102 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 314337202 | 2 | 128111 | 00 | 00 | NONE | MODIFIED THE ARRAY PS BY IMPLIMENTING NEW SHEET METAL. |

FRU NAME PS, PS ASSEMBLY DCPS, LPS2
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME PS ASSEMBLY DCPS, LPS2
 DESCRIPTION PS ASSEMBLY DCPS, LPS2

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|---|
| *311595806 | 1 | 116987 | 00 | 00 | NONE | SAFETY VIOLATION FIX - AUPB, AUPC. |
| *311595807 | 1 | 116973 | 00 | 00 | NONE | EMBED OF AUPA, AUPB, AUPC. |
| *311595808 | 1 | 128005 | 00 | 00 | NONE | REWORK AUPA 2XX, AUPB 3XX. CHANGE VALUES AS NEEDED TO ADJUST OUTPUT TO 3.36 V. CHANGES MADE TO PREVENT DROP OUT OF REGULATION DURING HOT PLUG. |
| *311595809 | 1 | 128005 | 00 | 00 | NONE | REWORK AUPA 3XX, AUPB 4XX. CHANGE VALUES AS NEEDED TO ADJUST OUTPUT TO 3.36 V. CHANGES MADE TO PREVENT DROP OUT OF REGULATION DURING HOT PLUG. |
| *311595810 | 1 | 128013 | 00 | 00 | NONE | REWORK AUPA CARD 2XX/3XX. |
| *311595811 | 1 | 127695 | 00 | 00 | 346829 | REWORK AUPC 3XX RELEASE EMBED 4XX. THE AUPC CARD IS MISSING SOLDER ON PFC BOOST RECTIFIERS CR201, CR202 AND CR701. THERE IS INCIDENTAL CONTACT BETWEEN THE RECTIFIER LEAD AND THE PAD. FB RELEASED MANDATORY. |
| 311595812 | 1 | 127695 | 00 | 00 | 346829 | REWORK AUPC 3XX RELEASE EMBED 4XX. THE AUPC CARD IS MISSING SOLDER ON PFC BOOST RECTIFIERS CR201, CR202 AND CR701. THERE IS INCIDENTAL CONTACT BETWEEN THE RECTIFIER LEAD AND THE PAD. FB RELEASED MANDATORY. |
| 314337101 | 2 | 128103 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |

FRU NAME AUHP
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME AUHP
 DESCRIPTION PWA, AUHP

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *314314202 | 1 | 116942 | 00 | 00 | NONE | INITIAL RELEASE WITH REWORK. |
| *314314302 | 1 | 116974 | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. |
| *314314203 | 1 | 128014 | 00 | 00 | NONE | ADD OFFSET TO PREVENT LATCH-UP. EQUIVALENT TO 314314303. |
| *314314203 | 1 | 128015A | 00 | 00 | NONE | EQUIVALENT TO 314314303/403. |
| *314314303 | 1 | 128014 | 00 | 00 | NONE | ADD OFFSET TO PREVENT LATCH-UP. EQUIVALENT TO 314314203. |
| *314314303 | 1 | 128015A | 00 | 00 | NONE | EQUIVALENT TO 314314203/403. |
| 314314304 | 2 | 133608 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 314314204/404. |
| *314314403 | 1 | 128015A | 00 | 00 | NONE | INITIAL RELEASE OF EMBED. EQUIVALENT TO 314314203/303. |
| 314314404 | 2 | 133608 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. EQUIVALENT TO 314314204/304. |

FRU NAME IBCU PWA
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IBCU PWA
 DESCRIPTION IBCU PWA

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *311527306 | 2 | 133607 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE ROHS COMPLIANT PART. EQUIVALENT TO 311527407. |
| 311527307 | 2 | 133643 | 00 | 00 | NONE | MODIFIED THE IBCU CARD BY DELETING THE ROLL PIN IN THE LOCKING POSITIONS ONLY. EQUIV. TO 311527408. |
| 311527307 | 2 | 133727 | 00 | 00 | NONE | EQUIVALENT TO 311527408. |
| *311527406 | 1 | 116999 | 00 | 00 | NONE | REWORK IBCU TO REPLACE TANTALUM CAPACITOR. |
| 311527407 | 2 | 133607 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE ROHS COMPLIANT PART. EQUIVALENT TO 311527306. |
| *311527408 | 2 | 133643 | 00 | 00 | NONE | MODIFIED THE IBCU CARD BY DELETING THE ROLL PIN IN THE LOCKING POSITIONS ONLY. EQUIV. TO 311527307. |
| 311527409 | 2 | 133727 | 00 | 00 | NONE | MODIFIED THE IBCU CARD TO REPLACE AN END OF LIFE PART. EQUIV. TO 311527307. |

FRU NAME IFES ASSEMBLY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME IFES ASSEMBLY
 DESCRIPTION IFES ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|---------------|--|
| *311860902 | 1 | 127587 | 00 | 00 | NONE | MODIFIED THE IFPB CARD FOR BETTER RELIABILITY. |
| *311860903 | 1 | 127638 | 00 | 00 | NONE | MODIFIED TO IFPB CARD FOR BETTER RELIABILITY |
| *311860904 | 1 | 127684 | 00 | 00 | NONE | MODIFIED THE IFPB CARD TO PREVENT INTERMITTENT PROBLEMS AT HIGH TEMPERATURES. |
| *311860905 | 1 | 127698A | 00 | 00 | NONE | PROM CHANGE ON IFPB CARD TO PREVENT READ WRITE INTERFACE ERRORS. |
| *311860905 | 1 | 127859 | 00 | 00 | 103150 | FB RELEASED EXCEPTIONAL. REPLACE IFES CARDS SUSPECTED OF HAVING WRITE PROTECTED PROMS. |
| *311860906 | 1 | 133557 | 00 | 00 | NONE | SOCKETS REMOVED ON IFPB AND IFMZ CARDS BECAUSE OF INTERMITTANT CONNECTION. |
| *311860907 | 1 | 133596A | 00 | 00 | NONE | MODIFIED THE IFPB CARD FOR ROHS COMPLIANT. THIS PART IS NOT UPWARD COMPATIBLE. |
| *315508302 | 2 | 133557 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 315508303 | 2 | 133596A | 00 | 00 | NONE | MODIFIED THE IFPB CARD FOR ROHS COMPLIANT. |
| 315508303 | 2 | 133632 | 00 | 00 | 106262 | F/B 106262 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL. |

FRU NAME IMPELLER ASSEMBLY
PRODUCT NUMBER V2X
FAMID CODE 481
FRUID NAME IMPELLER ASSEMBLY
DESCRIPTION IMPELLER ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|----------------|------------|--------|-------------|-------------|---------------|---|
| 307644302 | 1 | 122171 | 00 | 00 | NONE | MODIFY ASSEMBLY FOR PRE-PRO RELEASE. |

FRU NAME FLOPPY DRIVE ASSEMBLY
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME FLOPPY DRIVE ASSEMBLY
 DESCRIPTION FLOPPY DRIVE ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *307645003 | 1 | 122196 | 00 | 00 | NONE | UPDATE BOM. |
| *307645004 | 1 | 123978 | 00 | 00 | NONE | DRIVE CHANGE |
| *315517301 | 2 | 133573 | 00 | 00 | NONE | CHANGE FOR RoHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE RoHS COMPLIANT PART. |
| 315517302 | 2 | 133658 | 00 | 00 | NONE | DRIVE CODE CHANGE. |

FRU NAME DRIVE FRU
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME DRIVE FRU
 DESCRIPTION DRIVE FRU ASSEMBLY, 36 GB

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|---|
| *311856606 | 1 | 127611 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *311856607 | 1 | 127666 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *311856608 | 1 | 127726 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| 311856609 | 1 | 127928 | 00 | 00 | NONE | DRIVE CODE CHANGE-ERRORS IN THE FIELD. SPARE STATUS |
| *312317603 | 2 | 127734 | 00 | 00 | NONE | MICROCODE LEVEL B01.04.XX OR HIGHER IS A PREREQUISITE. |
| *312317604 | 2 | 127740 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| *312317605 | 2 | 127781 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312317606 | 2 | 127890 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| 312317607 | 2 | 127980 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| 315517601 | 3 | 133573 | 00 | 00 | NONE | CHANGE FOR RoHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE RoHS COMPLIANT PART. |

FRU NAME HARD DRIVE ASSY, IHDR2, 16GB
 PRODUCT NUMBER V2X
 FAMID CODE 481
 FRUID NAME HARD DRIVE ASSY, IHDR2, 16GB
 DESCRIPTION HARD DRIVE ASSY, IHDR2, 16GB

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|--|
| *311890803 | 1 | 127618 | 00 | 00 | NONE | MODIFIED THE IHDR2 CARD FOR BETTER RELIABILITY. |
| *311890804 | 1 | 127607 | 00 | 00 | NONE | ISP HARD DRIVE CHANGE. |
| *311890805 | 1 | 127700 | 00 | 00 | NONE | MODIFIED CABLE TO UTILIZE J5 PLUG. |
| *315509101 | 2 | 133613 | 00 | 00 | NONE | NONE BUILT |
| *315509102 | 2 | 133618 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 315509103 | 2 | 133610 | 00 | 00 | NONE | REWORK IHDR2 CARDS FOR ROHS COMPLIANCE |

FRU NAME DRIVE FRU
 PRODUCT NUMBER V2X2
 FAMID CODE 481
 FRUID NAME DRIVE FRU
 DESCRIPTION DRIVE FRU ASSEMBLY, 36GB, DEPOP

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------|---------|-------|----------|----------|------------|-------------------|
|-------------|---------|-------|----------|----------|------------|-------------------|

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|-------------------|---|--------|----|----|------|-------------------|
| *312317601 | 1 | 127709 | 00 | 00 | NONE | INITIAL RELEASE |
| *312317602 | 1 | 127728 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| *312317603 | 1 | 127728 | 00 | 00 | NONE | DRIVE CODE CHANGE |

FRU NAME DRIVE FRU
 PRODUCT NUMBER V2X04B2, V2X04B3, V2X04B4, V2X04C2, V2X04C3, V2X04C4,
 FAMID CODE 481
 FRUID NAME DRIVE FRU
 DESCRIPTION DRIVE FRU ASSEMBLY, 73GB

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|---|
| *312317702 | 1 | 127710 | 00 | 00 | NONE | INITIAL RELEASE |
| *312317703 | 1 | 127728 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| *312317704 | 1 | 127728 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| *312317705 | 1 | 127740 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| *312317706 | 1 | 127781 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312317707 | 2 | 127890 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| *312317708 | 2 | 127980 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312386901 | 1 | 127982 | 00 | 00 | NONE | INITIAL RELEASE |
| *312386902 | 1 | 133528 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312386903 | 1 | 133541 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *315510601 | 2 | 133544 | 00 | 00 | NONE | CHANGE FOR RoHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE RoHS COMPLIANT PART. |
| *312386904 | 1 | 133584 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312386905 | 1 | 133675 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *315510602 | 2 | 133584 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| 315510603 | 2 | 133675 | 00 | 00 | NONE | DRIVE CODE CHANGE. |

FRU NAME DRIVE FRU
 PRODUCT NUMBER V2X04B2, V2X04B3, V2X04B4, V2X04C2, V2X04C3, V2X04C4,
 FAMID CODE 481
 FRUID NAME DRIVE FRU
 DESCRIPTION DRIVE FRU ASSEMBLY, 146GB

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|---|
| *312398102 | 1 | 133528 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312398103 | 1 | 133541 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312310701 | 2 | 133544 | 00 | 00 | NONE | CHANGE FOR RoHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE RoHS COMPLIANT PART. |
| *312398104 | 1 | 133584 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| *312398105 | 1 | 133675 | 00 | 00 | NONE | DRIVE CODE CHANGE |
| *315510702 | 2 | 133584 | 00 | 00 | NONE | DRIVE CODE CHANGE. |
| 315510703 | 2 | 133675 | 00 | 00 | NONE | DRIVE CODE CHANGE. |

FRU NAME FACEPLATE ASSEMBLY
 PRODUCT NUMBER V2XF
 FAMID CODE 481
 FRUID NAME FACEPLATE ASSEMBLY
 DESCRIPTION FACEPLATE ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|---------|---------------|-----------|-----------|-------------|---|
| *312349701 | 1 | 127805 | 00 | 00 | NONE | MODIFIED THE AHUB CARD BY ADDING PEM NUTS. INITIAL RELEASE OF AHUB EPLD CODE. |
| 315510501 | 2 | 133590 | 00 | 00 | NONE | CHANGE FOR RoHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE RoHS COMPLIANT PART. |

FRU NAME IFC ASSEMBLY, SHORTWAVE HOST BUS ADAPTER
 PRODUCT NUMBER V2XF
 FAMID CODE 481
 FRUID NAME IFC ASSEMBLY, SHORTWAVE
 DESCRIPTION IFC ASSEMBLY, SHORTWAVE HOST BUS ADAPTER

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|-------------------|----------|---------------|-----------|-----------|-------------|--|
| *312358501 | 1 | 127806 | 00 | 00 | NONE | INITIAL RELEASE. |
| *312358501 | 1 | 127822 | 00 | 00 | NONE | EQUIVALENT TO 312335204. |
| *312335204 | 1 | 127822 | 00 | 00 | NONE | MODIFIED THE 3XX LEVEL IFC CARD BY ADDING MORE DECOUPLING CAPS TO REDUCE NOISE LEVEL INSIDE THE FPGA'S. EQUIVALENT TO 312358501. |
| *312335204 | 1 | 127827 | 00 | 00 | NONE | EQUIVALENT TO 312358502. |
| 312358502 | 1 | 127827 | 00 | 00 | NONE | MODIFIED THE 4XX LEVEL IFC CARD BY ADDING CAPS TO 3.3V TO REDUCE NOISE LEVEL. EQUIVALENT TO 312335204. |
| *312358502 | 1 | 127834 | 00 | 00 | NONE | EQUIVALENT TO 312335205. |
| *312335205 | 1 | 127834 | 00 | 00 | NONE | MODIFIED THE 3XX LEVEL IFC CARD TO REDUCE NOISE LEVEL. EQUIVALENT TO 312358502. |
| 312358503 | 2 | 133612 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 312335206 | 2 | 133612 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |

FRU NAME IFC ASSEMBLY, LONGWAVE HOST BUS ADAPTER
 PRODUCT NUMBER V2XF
 FAMID CODE 481
 FRUID NAME IFC ASSEMBLY, LONGWAVE
 DESCRIPTION IFC ASSEMBLY, LONGWAVE HOST BUS ADAPTER

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|---------------|-----------|-----------|-------------|--|
| *312358401 | 1 | 127806 | 00 | 00 | NONE | INITIAL RELEASE. |
| *312358401 | 1 | 127822 | 00 | 00 | NONE | EQUIVALENT TO 312335304. |
| *312335304 | 1 | 127822 | 00 | 00 | NONE | MODIFIED THE 3XX LEVEL IFC CARD BY ADDING MORE DECOUPLING CAPS TO REDUCE NOISE LEVEL INSIDE THE FPGA'S. EQUIVALENT TO 312358401. |
| *312335304 | 1 | 127827 | 00 | 00 | NONE | EQUIVALENT TO 312358402. |
| 312358402 | 1 | 127827 | 00 | 00 | NONE | MODIFIED THE 4XX LEVEL IFC CARD BY ADDING CAPS TO 3.3V TO REDUCE NOISE LEVEL. EQUIVALENT TO 312335304. |
| *312358402 | 1 | 127834 | 00 | 00 | NONE | EQUIVALENT TO 312335305. |
| *312335305 | 1 | 127834 | 00 | 00 | NONE | MODIFIED THE 3XX LEVEL IFC CARD TO REDUCE NOISE. EQUIVALENT TO 312358402. |
| 312358403 | 2 | 133612 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |
| 312335306 | 2 | 133612 | 00 | 00 | NONE | CHANGE FOR ROHS COMPLIANCE. THIS PART IS DOWNWARD COMPATIBLE BUT OLD PARTS CANNOT REPLACE THE ROHS COMPLIANT PART. |

FRU NAME IFES2 ASSEMBLY
 PRODUCT NUMBER V2Xf
 FAMID CODE 481
 FRUID NAME IFES2 ASSEMBLY
 DESCRIPTION IFES2 ASSEMBLY

| PART NUMBER | COMP NO | EC NO | SOFT REF | HEX FEAT | FIELD BILL | DESCRIPTION OF EC |
|------------------|----------|----------------|-----------|-----------|-------------|------------------------|
| 312397007 | 1 | 133676A | 00 | 00 | NONE | INITIAL RELEASE |