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.

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FRU NAME          ACMB
PRODUCT NUMBER    V2X
FAMID CODE        481
FRUID NAME        ACMB
DESCRIPTION       PWA, ACMB
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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
						THIS PAGE DELETED - REFER TO PAGE 2-16
*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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PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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
						THIS PAGE DELETED. REFER TO PAGE 2-16
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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PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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.*

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FRU NAME           IFF
PRODUCT NUMBER     V2X
FAMID CODE         481
FRUID NAME         IFF
DESCRIPTION        PWA, IFF
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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 31879404.
*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*	*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.*

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 VALVE 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.

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FRU NAME          ACMI2
PRODUCT NUMBER    V2X2, V2Xf
FAMID CODE        481
FRUID NAME        ACMI
DESCRIPTION       PWA, ACMI2
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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 UNTILTHE 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	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC

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PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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
						THIS PAGE DELETED. REFER TO PAGE 2-13
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
						THIS PAGE DELETED. REFER TO PAGE 2-13
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
						THIS PAGE DELETED - REFER TO PAGE 2-14
*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
						THIS PAGE DELETED - REFER TO PAGE 2-14
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
						THIS PAGE DELETED - REFER TO PAGE 2-14
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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PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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.*
*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
						THIS PAGE DELETED - REFER TO PAGE 2-15
*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
						THIS PAGE DELETED - REFER TO PAGE 2-15
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
						THIS PAGE DELETED - REFER TO PAGE 2-15
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
						THIS PAGE DELETED - REFER TO PAGE 2-15
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.
311828304	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.

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.*

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

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

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

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

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

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

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

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

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FRU NAME            FLOPPY MICROCODE
PRODUCT NUMBER      V2X
FAMID CODE          481
FRUID NAME
DESCRIPTION         FLOPPY MICROCODE B01.XX.XX.XX
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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	INITIAL RELEASE MCODE LEVEL G01.04.31.00. FB 103238 RELEASED FACTORY MANDATORY/FIELD EXCEPTIONAL.
*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.*

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

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

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

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

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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
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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*