

## EVLA Correlator Project Contract #31035-059127

### BOMNotes: Notes on Bill of Materials for the Station Board 25040.

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**Version:** V1.2c

**Date:** October 07, 2008

### Updates

**Vprelim:** Preliminary release for advance component acquisition for the **Stage 1** prototype build. BOM is not final, but only minor small capacitor/resistor changes are likely.

Change Reference	Description of changes/updates since last release
<i>File Version: Vprelim; File Date: Mar. 20, 2006</i>	
<i>The BOM file has had the following changes made since the previous version:</i>	
Pro Soft Touch	Removed from the BOM.
25500-A-000052	The manufacturer's part number changed from XC4VSX35-10FF668 to XC4VSX35-10FF668-CS2 to specify Stepping 2 for this part. The part description has been updated to include "Stepping 2".
25500-A-000053	The manufacturer's part number changed from XC4VLX40-10FF1148 to XC4VLX40-10FF1148-CS2 to specify Stepping 2 for this part. The part description has been updated to include "Stepping 2".
25500-A-000090	Quantity changed from 6 to 2; reference designators updated.
25500-A-000091	Quantity changed from 6 to 2; reference designators updated.
25500-A-000098	Quantity changed from 5 to 9; reference designators updated.
25500-N-000008	Removed from the BOM.
25500-N-000009	Removed from the BOM.
25500-N-000010	Manufacturer's part number changed to removed the manufacturer's name from the part number.
25500-N-000034	Quantity changed from 12 to 11; reference designators updated.
25500-P-000001	Removed from the BOM.
25500-P-000003	Quantity changed from 52 to 46; reference designators updated.
25500-P-000004	Quantity changed from 18 to 16; reference designators updated.
25500-P-000005	Quantity changed from 716 to 501; reference designators updated.
25500-P-000007	Quantity changed from 37 to 41; reference designators updated.
25500-P-000010	Quantity changed from 10 to 91; reference designators updated.
25500-P-000013	Quantity changed from 850 to 885; reference designators updated.
25500-P-000014	Quantity changed from 96 to 114; reference designators updated.
25500-P-000017	Added to the BOM.

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25500-P-000023	Removed from the BOM.
25500-P-000024	Quantity changed from 147 to 116; reference designators updated.
25500-P-000025	Quantity changed from 160 to 220; reference designators updated.
25500-P-000031	Quantity changed from 827 to 908; reference designators updated.
25500-P-000048	Removed from the BOM.
25500-P-000057	Quantity changed from 2 to 4; reference designators updated.
25500-P-000060	Quantity changed from 10 to 16; reference designators updated.
25500-P-000062	Quantity changed from 5 to 69; reference designators updated.
25500-P-000065	Quantity changed from 4 to 2; reference designators updated.
25500-P-000066	Added to the BOM.
25500-P-000069	Removed from the BOM.
25500-P-000076	Quantity changed from 28 to 33; reference designators updated.
25500-P-000098	Quantity changed from 4 to 5; reference designators updated.
25500-P-000099	Added to the BOM.
25500-P-000126	Removed from the BOM.
25500-P-000139	Quantity changed from 145 to 73; reference designators updated.
25500-P-000141	Removed from the BOM.
25500-P-000149	Added to the BOM.
25500-P-000151	Added to the BOM.
Total # of parts	Changed from 5128 to 5081.
<b><i>File Version: Vprelim; File Date: Mar. 20, 2006</i></b>	
<b><i>The BOMaux file has had the following changes made since the previous version:</i></b>	
New Column	Column added called 'References' with a width of 61 characters (with " " being the 61 <sup>st</sup> character) as required by the project management specification document A25001N0000.
25500-B-00005	Manufacturer's part number changed from PCBBB12Ux400mm28Layer-V1.0 to SB-25041-V1.0.
25500-Y-000005	Manufacturer's part number changed from Assembled SB-V1.0 to SB-25040-V1.0.
<b><i>File Version: Vprelim; File Date: Mar. 20, 2006</i></b>	
<b><i>The BOMnotes file has had the following changes made since the previous version:</i></b>	
New Table	Updates table added under the updates section to track changes to the BOM, BOMaux, and BOMnotes files as requested by BMS.
25500-N-000008	Special pricing information has been deleted because this part has been deleted from the BOM.
25500-N-000009	Special pricing information has been deleted because this part has been deleted from the BOM.
25500-P-000048	Special pricing information has been deleted because this part has been deleted from the BOM.
25500-P-000126	Special pricing information has been deleted because this part has been deleted from the BOM.
25500-N-000010	Under special pricing information the Manufacturer's part number updated to remove the manufacturer's name.
25500-N-000022	Under Already Purchased Components, NRC will only be

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	providing quantity 7 of part number. Previously this quantity was 8.
Pro Soft Touch	The miscl. part note has been deleted because this part has been deleted from the BOM.

**V1.0:** First full release for Stage 1 build.

<b>Change Reference</b>	<b>Description of changes/updates since last release</b>
<i>File Version: V1.0; File Date: June 05, 2006</i>	
<i>The BOM file has had the following changes made since the previous version:</i>	
25500-A-000085	Manufacturer's part number corrected from D048C025T015M2N to D048C025T017M2N. This error was only in the Station Board BOM file, the part number was already correct in the BOM notes file and the Baseline Board BOM file. Also NRC is providing this part so the correct part has already been ordered.
25500-A-000086	Manufacturer's part number corrected from D048C033T015M1N to D048C033T018M2N. This error was only in the Station Board BOM file, the part number was already correct in the BOM notes file and the Baseline Board BOM file. Also NRC is providing this part so the correct part has already been ordered.
25500-A-000087	Manufacturer's part number corrected from D048C050T015M1N to D048C050T018M1N. This error was only in the Station Board BOM file, the part number was already correct in the BOM notes file and the Baseline Board BOM file. Also NRC is providing this part so the correct part has already been ordered.
25500-N-000034	Quantity changed from 11 to 9; reference designators updated.
25500-P-000003	Quantity changed from 46 to 129; reference designators updated. The manufacturer has been changed from Panasonic to Yageo and the manufacturer's part number has been changed from ERJ2RKF4301X to RC0402FR-074K3L upon request from BMS.
25500-P-000005	Quantity changed from 501 to 500; reference designators updated.
25500-P-000007	Removed from the BOM.
25500-P-000008	Removed from the BOM.
25500-P-000010	Removed from the BOM.
25500-P-000013	Quantity changed from 885 to 902; reference designators updated.
25500-P-000024	Quantity changed from 116 to 74; reference designators updated.
25500-P-000025	Quantity changed from 220 to 179; reference designators updated.
25500-P-000046	Added to the BOM.
25500-P-000057	Quantity changed from 4 to 6; reference designators updated. Also, manufacturer's part number updated to remove the unnecessary period at the end (i.e. from 0453-003. to 0453-003).
25500-P-000059	Quantity changed from 38 to 40; reference designators updated.
25500-P-000070	Quantity changed from 37 to 36; reference designators updated.

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25500-P-000076	Quantity changed from 33 to 32; reference designators updated.
25500-P-000101	Added to the BOM.
25500-P-000111	Quantity changed from 7 to 12; reference designators updated.
25500-P-000116	Manufacturer's part number updated to remove the unnecessary period at the end (i.e. from 0453-010. to 0453-010).
25500-P-000139	Removed from the BOM.
25500-P-000142	Quantity changed from 172 to 208; reference designators updated.
Reference Designators	All reference designators have been renumbered, all previous information in this regard is now obsolete.
<b><i>File Version: V1.0; File Date: June 05, 2006</i></b>	
<b><i>The BOMaux file has had the following changes made since the previous version:</i></b>	
25500-L-000005	Added to the BOMaux. <b>Note:</b> <u>The manufacturer and manufacturer's part number have not yet been entered as this information is to be provided by BMS.</u>
25500-M-000002	Reference designators assigned.
25500-M-000003	Reference designators assigned and a typo was corrected in the part description.
<b><i>File Version: V1.0; File Date: June 05, 2006</i></b>	
<b><i>The BOMnotes file has had the following changes made since the previous version:</i></b>	
Revision	Changed from Vprelim (for advanced part purchasing only) to V1.0. References are now made to the V1.0 of the Station Board BOM.
25500-A-000052	Under special pricing and contact information, manufacturer's part number updated from XC4VSX35-10FF668 to XC4VSX35-10FF668-CS2. This part number was already correct in the BOM.
25500-A-000053	Under special pricing and contact information, manufacturer's part number updated from XC4VLX40-10FF1148 to XC4VLX40-10FF1148-CS2. This part number was already correct in the BOM.
25500-M-000002	Under special pricing and contact information, manufacturer's part number corrected from the part description (Type E Lower shield) to the actual part number (103849).
25500-M-000003	Under special pricing and contact information, manufacturer's part number corrected from the part description (Type F Lower shield) to the actual part number (103851).
25500-N-000004	Under already purchased components, manufacturer's part number corrected from 87333-1420 to 87831-1420 and the quantity purchased updated from 6 to 20. This part is being provided by NRC so the correct parts have already been ordered.
File References	References to the Station Board BOM and BOMaux files have been updated.
25500-P-000066	Added to the list under misc part notes.
Formatting	Updates listing table reformatted.

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Change Reference	Description of changes/updates since last release
<b>File Version: V1.0; File Date: June 26, 2006</b>	
<b>The BOM file has had the following changes made since the previous version:</b>	
25500-A-000055	Added to the BOM.
25500-A-000056	Added to the BOM.
25500-L-000005	Added to the BOM <b>Note: The manufacturer and manufacturer's part number have not yet been entered as this information is to be provided by BMS.</b>
25500-P-000070	Quantity changed from 36 to 37; reference designators updated.
25500-P-000098	Quantity changed from 5 to 6; reference designators updated.
<b>File Version: V1.0; File Date: June 26, 2006</b>	
<b>The BOMaux file has had the following changes made since the previous version:</b>	
25500-L-000005	Removed from the BOMaux.

**V1.1:** Full release for Stage 2 build.

Change Reference	Description of changes/updates since last release
<b>File Version: V1.1; File Date: November 09, 2007</b>	
<b>The BOM file has had the following changes made since the previous version:</b>	
Pro Soft Touch	Added to BOM. <i>Ref. Des. Added: J21-J22</i>
25500-A-000019	Quantity changed from 17 to 21. <i>Ref. Des. Added: D37-D40</i>
25500-A-000020	Quantity changed from 7 to 10. <i>Ref. Des. Added: U172-U173</i>
25500-A-000034	Quantity changed from 11 to 13. <i>Ref. Des. Added: D35-D36</i>
25500-A-000036	Added to BOM. <i>Ref. Des. Added: D31-D32</i>
25500-A-000040	Added to BOM. <i>Ref. Des. Added: D33-D34</i>
25500-A-000041	Added to BOM. <i>Ref. Des. Added: U76-U77</i>
25500-A-000083	Removed from BOM. <i>Ref. Des. Removed: U9,U11,U57,U65</i>
25500-A-000084	Removed from BOM. <i>Ref. Des. Removed: U45</i>
25500-A-000085	Removed from BOM. <i>Ref. Des. Removed: U10</i>
25500-A-000086	Removed from BOM. <i>Ref. Des. Removed: U3</i>

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25500-A-000087	Removed from BOM. <i>Ref. Des. Removed:</i> U4
25500-A-000091	Quantity changed from 2 to 4. <i>Ref. Des. Added:</i> U79-U80
25500-A-000092	Quantity changed from 1 to 2. <i>Ref. Des. Added:</i> G2
25500-A-000104	Added to BOM. <i>Ref. Des. Added:</i> U78
25500-A-000119	Added to BOM. <i>Ref. Des. Added:</i> U171
25500-L-000005	Removed from BOM. <i>Ref. Des. Removed:</i> LB1
25500-L-000020	Added to BOM. <i>Ref. Des. Added:</i> LB1
25500-N-000005	Removed from BOM. <i>Ref. Des. Removed:</i> J1
25500-N-000024	Added to BOM. <i>Ref. Des. Added:</i> J23
25500-N-000034	Quantity changed from 9 to 11. <i>Ref. Des. Added:</i> JP10-JP11
25500-N-000056	Added to BOM. <i>Ref. Des. Added:</i> U81-U86,U81_164,U81_166,U81_168-U81_171,U82_164,U82_166,U82_168-U82_171,U83_164,U83_166,U83_168-U83_174,U84_164,U84_166,U84_168-U84_174,U85_164,U85_166,U85_168-U85_171,U86_164,U86_166,U86_168-U86_171
25500-N-000057	Added to BOM. <i>Ref. Des. Added:</i> U87-U92,U87_164,U87_166,U87_168-U87_174,U88_164,U88_166,U88_168-U88_174,U89_164,U89_166,U89_168-U89_174,U90_164,U90_166,U90_168-U90_174,U91_164,U91_166,U91_168-U91_174,U92_164,U92_166,U92_168-U92_174
25500-N-000058	Added to BOM. <i>Ref. Des. Added:</i> J1
25500-P-000000	Added to BOM. <i>Ref. Des. Added:</i> R655,R858,R1409
25500-P-000001	Added to BOM. <i>Ref. Des. Added:</i> R1380-R1383

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25500-P-000003	Quantity changed from 129 to 94. <i>Ref. Des. Added:</i> R1355-R1356,R1407-R1408,R1445-R1446, R1452 <i>Ref. Des. Removed:</i> R346-R350,R405-R409,R468,R472-R473,R475-R476,R590,R598,R648-R649,R683,R774,R778, R915,R923-R924,R934,R1063,R1066,R1068,R1071,R1073, R1075,R1142-R1146,R1203,R1204,R1207,R1208,R1211
25500-P-000004	Quantity changed from 16 to 6. <i>Ref. Des. Added:</i> R1374-R1379 <i>Ref. Des. Removed:</i> R304-R307,R313-R318,R736-R737,R949-R950,R1212-R1213
25500-P-000005	Quantity changed from 500 to 513. <i>Ref. Des. Added:</i> R1362-R1369,R1372-R1373,R1419-R1422, R1450-R1451 <i>Ref. Des. Removed:</i> R655,R667,R858
25500-P-000006	Added to BOM. <i>Ref. Des. Added:</i> R1325-R1331
25500-P-000007	Added to BOM. <i>Ref. Des. Added:</i> R1392
25500-P-000009	Quantity changed from 7 to 22. <i>Ref. Des. Added:</i> R1262,R1357-R1361,R1411-R1414,R1447-R1449,R1473-R1474
25500-P-000013	Quantity changed from 902 to 1055. <i>Ref. Des. Added:</i> C210-C213,C215-C218,C220-C223,C226-C229,C231-C234,C236-C239,C242-C245,C250-C253, C255-C258, C261-C264, C266-C273,C277-C280,C285-C288,C294-C297,C301-C304,C307-C310,C319-C322,C1789-C1792,C1800-C1803,C1813-C1816,C1825-C1828,C1844-C1847,C1853-C1856,C1880-C1883,C1889-C1892,C1897-C1900,C1907-C1910,C1916-C1919,C1927-C1930,C1933-C1936,C1940-C1943,C1973-C1976,C1979-C1982,C1984-C1987,C1991-C1994,C3453-C3457,C3496-C3498,C3500-C3501 <i>Ref. Des. Removed:</i> C146
25500-P-000014	Removed from BOM. <i>Ref. Des. Removed:</i> C29,C31,C36-C41,C45-C49,C51,C54,C59-C60,C71-C72,C79-C84,C98,C102,C127-C131,C150-C153,C180-C182,C186,C199-C201,C204,C235,C240,C249,C284,C289-C290,C306,C313-C316,C325,C334-C336,C343-C344,C348, C351,C354,C366,C372,C375-C378,C384-C386,C406,C410-C414,C419,C421-C422,C427-C433,C437,C466-C467,C585, C937,C1030,C1135,C1262,C1334,C1461-C1462,C1629,C1684, C1807,C1822,C1841,C1873,C2865,C2908,C2929,C2957,C3022, C3227,C3309,C3338

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25500-P-000024	Quantity changed from 74 to 80. <i>Ref. Des. Added:</i> R1341-R1343,R1345,R1348,R1351,R1353, R1405-R1406 <i>Ref. Des. Removed:</i> R610,R856,R945
25500-P-000025	Quantity changed from 179 to 178. <i>Ref. Des. Removed:</i> R143
25500-P-000026	Quantity changed from 1 to 2. <i>Ref. Des. Added:</i> R1410
25500-P-000030	Quantity changed from 986 to 842. <i>Ref. Des. Removed:</i> C210-C213,C215-C218,C220-C223,C226- C229,C231-C234,C236-C239, C242-C245,C250-C253,C255- C258,C261-C264,C266-C273,C277-C280,C285-C288,C294- C297,C301-C304,C307-C310,C319-C322,C1789-C1792,C1800- C1803,C1813-C1816,C1825-C1828,C1844-C1847,C1853- C1856,C1880-C1883,C1889-C1892,C1897-C1900,C1907- C1910,C1916-C1919,C1927-C1930,C1933-C1936,C1940- C1943,C1973-C1976,C1979-C1982,C1984-C1987,C1991-C1994
25500-P-000034	Quantity changed from 1 to 2. <i>Ref. Des. Added:</i> C3499
25500-P-000037	Added to BOM. <i>Ref. Des. Added:</i> R1453-R1472
25500-P-000049	Added to BOM. <i>Ref. Des. Added:</i> C3458-C3463,C3502
25500-P-000050	Added to BOM. <i>Ref. Des. Added:</i> C3503
25500-P-000059	Quantity changed from 40 to 52. <i>Ref. Des. Added:</i> R1393-R1404
25500-P-000060	Quantity changed from 16 to 24. <i>Ref. Des. Added:</i> R1332-R1339
25500-P-000061	Quantity not changed. <i>Ref. Des. Added:</i> R1261 <i>Ref. Des. Removed:</i> R103
25500-P-000066	Removed from BOM. <i>Ref. Des. Removed:</i> J21-J22
25500-P-000070	Quantity changed from 37 to 45. <i>Ref. Des. Added:</i> C3512-C3519
25500-P-000072	Added to BOM. <i>Ref. Des. Added:</i> R1415-R1416
25500-P-000075	Added to BOM. <i>Ref. Des. Added:</i> R1384-R1391
25500-P-000076	Quantity changed from 32 to 41. <i>Ref. Des. Added:</i> R1423-R1432 <i>Ref. Des. Removed:</i> R26

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25500-P-000079	Quantity changed from 10 to 12. <i>Ref. Des. Added:</i> R1433-R1434
25500-P-000083	Quantity changed from 5 to 7. <i>Ref. Des. Added:</i> R1435-R1436
25500-P-000088	Quantity changed from 12 to 14. <i>Ref. Des. Added:</i> R1417-R1418
25500-P-000097	Quantity changed from 4 to 6. <i>Ref. Des. Added:</i> R1439-R1440
25500-P-000098	Quantity changed from 6 to 8. <i>Ref. Des. Added:</i> R1437-R1438
25500-P-000099	Quantity changed from 16 to 17. <i>Ref. Des. Added:</i> L35
25500-P-000101	Quantity changed from 165 to 164. <i>Ref. Des. Removed:</i> C183
25500-P-000123	Quantity changed from 10 to 12. <i>Ref. Des. Added:</i> C3520-C3521
25500-P-000124	Quantity changed from 11 to 13. <i>Ref. Des. Added:</i> C3522-C3523
25500-P-000130	Added to BOM. <i>Ref. Des. Added:</i> C3529-C3530
25500-P-000140	Quantity changed from 16 to 20. <i>Ref. Des. Added:</i> C3524-C3527
25500-P-000142	Quantity changed from 208 to 239. <i>Ref. Des. Added:</i> C3504-C3511,C3528,C3541-C3551,C3556-C3566
25500-P-000149	Quantity changed from 16 to 20. <i>Ref. Des. Added:</i> R1441-R1444
25500-P-000167	Added to BOM. <i>Ref. Des. Added:</i> R26
25500-P-000168	Added to BOM. <i>Ref. Des. Added:</i> L34
25500-P-000169	Added to BOM. <i>Ref. Des. Added:</i> C29,C31,C36-C41,C45-C49,C51,C54,C59-C60,C71-C72,C79-C84,C98,C102,C127-C131,C150-C153,C180-C182,C186,C199-C201,C204,C235,C240,C249,C284,C289-C290,C306,C313-C316,C325,C334-C336,C343-C344,C348,C351,C354,C366,C372,C375-C378,C384-C386,C406,C410-C414,C419,C421-C422,C427-C433,C437,C466-C467,C585,C937,C1030,C1135,C1262,C1334,C1461-C1462,C1629,C1684,C1807,C1822,C1841,C1873,C2865,C2908,C2929,C2957,C3022,C3227,C3309,C3338,C3531-C3540,C3567-C3576
25500-P-000171	Added to BOM. <i>Ref. Des. Added:</i> C3464-C3495,C3552-C3555,C3577-C3580,C3585-C3592

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Additional Information	A copy of the non-populated parts list has been added to the end of the BOM at the request of BMS.
<b><i>File Version: V1.1; File Date: November 6, 2007</i></b>	
<b><i>The BOMaux file has had the following changes made since the previous version:</i></b>	
25500-A-000083	Added to BOM. <i>Ref. Des. Added: U203,U205-U209</i>
25500-A-000084	Added to BOM. <i>Ref. Des. Added: U204</i>
25500-A-000126	Added to BOM. <i>Ref. Des. Added: U202</i>
25500-A-000127	Added to BOM. <i>Ref. Des. Added: U201</i>
25500-A-000128	Added to BOM. <i>Ref. Des. Added: U200</i>
25500-B-000005	Removed from BOM.
25500-B-000013	Added to BOM.
25500-Y-000005	Removed from BOM.
<b><i>File Version: V1.1; File Date: November 6, 2007</i></b>	
<b><i>The BOMnotes file has had the following changes made since the previous version:</i></b>	
Revision	Changed from V1.0 (Stage 1) to V1.1. (Stage 2/3) References are now made to the V1.1 of the Station Board BOM and BOMaux.
Information Update	Special pricing information has been updated.
Information Update	Second Source information has been updated.

<b>Change Reference</b>	<b>Description of changes/updates since last release</b>
<b><i>File Version: V1.1; File Date: November 29, 2007</i></b>	
<b><i>The BOM file has had the following changes made since the previous version:</i></b>	
25500-P-000000	Quantity changed from 3 to 5. <i>Ref. Des. Added: R1475-R1476</i>
25500-P-000009	Quantity changed from 22 to 28. <i>Ref. Des. Added: R1477-R1482</i>
25500-A-000092	Part added to Do Not Install list.
<b><i>File Version: V1.1; File Date: November 29, 2007</i></b>	
<b><i>The BOMnotes file has had the following changes made since the previous version:</i></b>	
Information Update	BOM changes added to Updates section and Misc. part notes section.

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**V1.2:** Full release for Stage 3 build.

<b>Change Reference</b>	<b>Description of changes/updates since last release</b>
<i>File Version: V1.2; File Date: March 20, 2008</i>	
<i>The BOM file has had the following changes made since the previous version:</i>	
25500-A-000055	Removed from BOM. <i>Ref. Des. Removed:</i> D29-D30
25500-A-000090	Quantity changed from 2 to 4. <i>Ref. Des. Added:</i> U175-U176
25500-A-000136	Added to BOM. <i>Ref. Des. Added:</i> D29-D30
25500-L-000020	Removed from BOM. <i>Ref. Des. Removed:</i> LB1
25500-L-000025	Added to BOM. <i>Ref. Des. Added:</i> LB1
25500-N-000034	Removed from BOM. <i>Ref. Des. Removed:</i> JP1-JP11
25500-N-000067	Added to BOM. <i>Ref. Des. Added:</i> JP1, JP4-JP7, JP12
25500-P-000013	Quantity changed from 1055 to 1060 <i>Ref. Des. Added:</i> C3593-C3595, C3599-C3600
25500-P-000062	Quantity changed from 59 to 47. <i>Ref. Des. Removed:</i> R550, R554-R555, R578, R809-R810, R815-R816, R975, R1019, R1034, R1061
25500-P-000151	Removed from BOM. <i>Ref. Des. Removed:</i> TSW1-TSW2
25500-P-000169	Removed from BOM. <i>Ref. Des. Removed:</i> C29, C31, C36-C41, C45-C49, C51, C54, C59-C60, C71-C72, C79-C84, C98, C102, C127-C131, C150-C153, C180-C182, C186, C199-C201, C204, C235, C240, C249, C284, C289-C290, C306, C313-C316, C325, C334-C336, C343-C344, C348, C351, C354, C366, C372, C375-C378, C384-C386, C406, C410-C414, C419, C421-C422, C427-C433, C437, C466-C467, C585, C937, C1030, C1135, C1262, C1334, C1461-C1462, C1629, C1684, C1807, C1822, C1841, C1873, C2865, C2908, C2929, C2957, C3022, C3227, C3309, C3338, C3531-C3540, C3567-C3576

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25500-P-000184	Added to BOM. <i>Ref. Des. Added:</i> C29, C31, C36-C41, C45-C49, C51, C54, C59-C60, C71-C72, C79-C84, C98, C102, C127-C131, C150-C153, C180-C182, C186,C199-C201, C204, C235, C240, C249, C284, C289-C290, C306, C313-C316, C325, C334-C336, C343-C344, C348, C351, C354, C366, C372, C375-C378, C384-C386, C406, C410-C414, C419, C421-C422, C427-C433, C437, C466-C467, C585, C937, C1030, C1135, C1262, C1334, C1461-C1462, C1629, C1684, C1807, C1822, C1841, C1873, C2865, C2908, C2929, C2957, C3022, C3227, C3309, C3338, C3531-C3540, C3567-C3576
25500-P-000188	Added to BOM. <i>Ref. Des. Added:</i> C3596-C3598
25500-P-000189	Added to BOM. <i>Ref. Des. Added:</i> TSW1-TSW2
<b>File Version: V1.2; File Date: March 20, 2008</b> <b>The BOMaux file has had the following changes made since the previous version:</b>	
25500-B-000013	Removed from BOMaux.
25500-B-000017	Added to BOMaux.
<b>File Version: V1.2; File Date: March 25, 2008</b> <b>The BOMnotes file has had the following changes made since the previous version:</b>	
Revision	Changed from V1.1 (Stage 2) to V1.2 (Stage 3) References are now made to the V1.2 of the Station Board BOM and BOMaux.
Information Update	Already purchased components has been updated.

**V1.2:** Full release for Stage 4 full production.

<b>Change Reference</b>	<b>Description of changes/updates since last release</b>
<b>File Version: V1.2c; File Date: Oct. 07, 2008</b> **No changes to BOM file from the Stage 3 V1.2b release. The file version has been increased to V1.2c in order to maintain build consistency as the BOMaux file has been changed to V1.2c**	
<b>File Version: V1.2c; File Date: Oct. 07, 2008</b> <b>The BOMaux file has had the following changes made since the previous version:</b>	
25500-A-000127	Removed from BOMaux. <i>Ref. Des. Removed:</i> U201
25500-A-000140	Added to BOMaux. <i>Ref. Des. Added:</i> U201
<b>File Version: V1.2; File Date: Oct. 07, 2008</b> **Completely new BOMspares file; represents final spares quantities for full production**	
<b>File Version: V1.2c; File Date: Oct. 07, 2008</b> Final release of BOMnotes file for V1.2 full production.	
Updates	Reference to BOMspares file updated.

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Information Update	Build quantity updated to Stage 4 requirement.
Information Update	Removed parts not being supplied by NRC from Special Pricing section.
Information Update	Already purchased components section has been updated.

## Introduction

This file contains a description of the BOM (Bill of Materials) for the Station Board 25040. Included in this description is pricing and contact information for some components, second source information (if any) for selected components, components that have already been purchased by NRC and will therefore be shipped to BreconRidge Manufacturing Solutions (BMS) either from NRC or direct from the manufacturer, and references to drawings of special build parts that BMS fabricates that may be part of the assembly.

### Quantities

133 fully assembled boards (including 3% accepted defective modules as per contract) delivered in lots of approximately 10 boards per week with the first delivery 10 weeks after submission of Work Order and initiation of PCB fabrication.

## Special Pricing and Contact Information

This section contains pricing and contact information for various components for which negotiated pricing has been established, and the distributors from whom this pricing has been obtained.

**All dollar amounts are in USD unless otherwise noted.**

**NOTE: All of these components are purchased by NRC and will be shipped to BMS on consignment. This information is for determining Material Overhead and Profit Margin only.**

WIDAR Part No.	Mfg Part No.	Mfg	Price ea	Distributor
25500-A-000017	SK2111AXFT	Semtech	\$6.57	Arrow
25500-A-000046	EP1SGX10C-F672-C5	Altera	\$167.48	Arrow
25500-A-000050	EP1SGX25C-F672-C5	Altera	\$300.00	Arrow
25500-A-000052	XC4VSX35-10FF668-CS2	Xilinx	\$175.00	Avnet
25500-A-000053	XC4VLX40-10FF1148-CS2	Xilinx	\$209.00	Avnet

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## Second Sources/Approved Vendor List

This section contains a list of approved second sources/vendors for various components, if available. If more than a second source is available, it is noted on multiple lines with the same WIDAR Part No.

If second source components are to be used, then pricing must not exceed the price of the primary source by more than 1%. If this is the case, please contact NRC for resolution/approval to proceed.

WIDAR Part No.	Mfg Part No.	Mfg	2 <sup>nd</sup> Mfg Part No.	2 <sup>nd</sup> Mfg
25500-A-000126	PQ60025SGL25	SynQor	V48SR2R520NRFA	Delta Electronics
25500-A-000127	PQ60033SGL20	SynQor	V48SR3R320NRFA	Delta Electronics
25500-A-000128	PQ60050SGL12	SynQor	V48SR05013NRFA	Delta Electronics

## Already Purchased Components

The components in the following table will be supplied to BMS by NRC upon issuing the Stage 4 Work Order. The quantities shipped at that time (as described below) are the minimum requirement for the Stage 4 build. Several parts will be used on multiple boards and as such, will be shipped in one large batch rather than separated into separate shipments per board. The quantity of spares to be shipped for each part is currently TBD (except part number 25500-A-000017 where the quantity given is the total number that will be sent to BreconRidge).

**NOTE: Any quantities currently in stock @ BMS should be considered as included in the quantities given below.**

WIDAR Part No.	Mfg Part No.	Mfg	Qty purchased	Description
25500-A-000017	SK2111AXFT	Semtech	1500	1 to 10 LVDS driver LQFP32
25500-A-000046	EP1SGX10C-F672-C5	Altera	266	Stratix Gx EP1SGX10C F672 Speed 5
25500-A-000050	EP1SGX25C-F672-C5	Altera	133	Stratix Gx EP1SGX25C F672 Speed 5
25500-A-000052	XC4VSX35-10FF668-CS2	Xilinx	5453	VIRTEX 4 SX35 668 pin FPGA, stepping 2
25500-A-000053	XC4VLX40-10FF1148-CS2	Xilinx	133	VIRTEX 4 LX40 1148 pin FPGA, stepping 2

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## Misc1 Parts Notes

This section contains miscellaneous notes on various parts that impacts in some way the ordering of the parts, such as parts not installed on the circuit board etc.

BOM part number	Mfg Part No.	Reference Designators	Notes
Pro Soft Touch	AGILENT pro soft touch footprint	J21-J22	Footprint only: <b><u>DO NOT INSTALL</u></b>
TESTPOINT-THRU	TESTPOINT-THRU	TP1-TP180	Footprint only: <b><u>DO NOT INSTALL</u></b>
25500-A-000012	SY02-HPLL-IPNL64-OUNA128-4-TC-CM	U30	Footprint only: <b><u>DO NOT INSTALL</u></b>
25500-P-000037	ERJ2RKF3401X	R1453-R1472	Footprint only: <b><u>DO NOT INSTALL</u></b>
25500-A-000052	XC4VSX35-10FF668-CS2	U31, U70	Footprint only: <b><u>DO NOT INSTALL</u></b>
25500-A-000092	CB2V53C064M0000	G1-G2	Footprint only: <b><u>DO NOT INSTALL</u></b>