

EVLA Correlator Project Contract #31035-059127

BOMNotes: Notes on Bill of Materials for the Baseline Board Assembly 25080.

Author: Amy Fink

Version: V2.2

Date: June 16, 2009

Updates

V2.0: First full release for Stage 2 build.

Note: V2.0 of the Baseline Board is a major redesign of the board. Changes to this board from the V1.0 package are not documented as they are too extensive. The Baseline Board V2.0 should be entered into the BMS system as a completely new build.

Change Reference	Description of changes/updates since last release
<i>File Version: V2.0; BOM File Date: Oct. 10, 2007; BOMaux File Date: Oct. 19, 2007; BOMnotes File Date: Oct. 19, 2007; BOMspares File Date: Oct. 19, 2007</i> <i>First release of BOM, BOMnotes, BOMaux, and BOMspares files for V2.0 setup and parts purchasing.</i>	

V2.1: Full release for Stage 3 RFQ.

Change Reference	Description of changes/updates since last release
<i>File Version: V2.1; File Date: June 24, 2008</i> <i>The BOM file has had the following changes made since the previous version:</i>	
TESTPOINT-SMD	Quantity changed from 320 to 392. <i>Ref. Des. Added:</i> TP6-TP9, TP422-TP429, TP6_342,TP6_347, TP6_352,TP6_357,TP6_362,TP6_367,TP6_372,TP6_377, TP6_391,TP6_396,TP6_401,TP6_406,TP6_411,TP6_416, TP6_421,TP7_342,TP7_347,TP7_352,TP7_357,TP7_362, TP7_367,TP7_372,TP7_377,TP7_391,TP7_396,TP7_401, TP7_406,TP7_411,TP7_416,TP7_421,TP8_342,TP8_347, TP8_352,TP8_357,TP8_362,TP8_367,TP8_372,TP8_377, TP8_391,TP8_396,TP8_401,TP8_406,TP8_411,TP8_416, TP8_421,TP9_342,TP9_347,TP9_352,TP9_357,TP9_362, TP9_367,TP9_372,TP9_377,TP9_391,TP9_396,TP9_401, TP9_406,TP9_411,TP9_416,TP9_421
25500-A-000107	Added to BOM. <i>Ref. Des. Added:</i> G2

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25500-A-000142	Added to BOM. <i>Ref. Des. Added:</i> G3
25500-L-000006	Removed from BOM. <i>Ref. Des. Removed:</i> LB1
25500-L-000026	Added to BOM. <i>Ref. Des. Added:</i> LB1
25500-N-000034	Removed from BOM. <i>Ref. Des. Removed:</i> J16, JP1, JP5-JP9
25500-N-000067	Added to BOM. <i>Ref. Des. Added:</i> J16, JP1, JP5-JP9
25500-P-000000	Quantity changed from 163 to 171 <i>Ref. Des. Removed:</i> R1552-R1553 <i>Ref. Des. Added:</i> R2592,R2594-R2595,R2597,R2599,R2601, R2603,R2605,R2619-R2620
25500-P-000004	Quantity changed from 323 to 261 <i>Ref. Des. Removed:</i> R603, R603_1-R603_9, R603_10-R603_63 <i>Ref. Des. Added:</i> R2590-R2591
25500-P-000010	Quantity changed from 132 to 4 <i>Ref. Des. Removed:</i> C624,C628,C624_1-C624_9,C628_1- C628_9, C624_10-C624_63,C628_10-C628_63
25500-P-000013	Quantity changed from 2766 to 7939 <i>Ref. Des. Added:</i> C94-C96, C99-C101, C103-C106, C111-C112, C114-C115, C117-C118, C121-C122, C125-C126, C158-C159, C161-C162, C164-C165, C167-C169, C170-C171, C173-C174, C176-C177, C179-C181, C183, C188-C197, C205-C207, C214- C219, C224-C229, C234-C235, C237-C238, C241-C242, C244- C247, C251-C252, C255, C259, C261-C263, C289, C293-C294, C296, C298-C299, C301, C303-C306, C308, C318-C320, C359- C360, C362-C363, C366-C368, C371-C372, C376-C377, C631- C640, C380-C381, C383-C384, C466-C471, C475-C477, C480- C483, C487-C490, C494-C497, C500-C503, C507-C525, C601- C602, C604-C605, C607, C611, C613-C614, C617, C619, C622- C624, C628, C648, C650, C1909, C2012-C2031, C2033-C2067, C2069-C2075, C2684,C2686-C2703,C2715-C2716,C2718- C2719,C2816-C2943,C3008-C4031,C4302-C4317,C4334- C4337,C94_1-C94_9,C95_1-C95_9,C96_1-C96_9,C99_1- C99_9,C100_1- C100_9,C101_1-C101_9,C103_1-C103_9, C104_1-C104_9, C105_1-C105_9,C106_1-C106_9,C111_1- C111_9,C112_1-C112_9,C114_1-C114_9,C115_1-C115_9, C117_1-C117_9, C118_1-C118_9,C121_1-C121_9,C122_1- C122_9,C125_1-C125_9,C126_1-C126_9,C158_1-C158_9, C159_1-C159_9, C161_1-C161_9,C162_1-C162_9,C164_1- C164_9,C165_1-C165_9,C167_1-C167_9,C168_1-C168_9, C170_1-C170_9, C171_1-C171_9,C173_1-C173_9,C174_1- C174_9, C176_1-C176_9,C177_1-C177_9,C179_1-C179_9,

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	C602_10-C602_63, C604_10-C604_63,C605_10-C605_63, C607_10-C607_63, C611_10-C611_63,C613_10-C613_63, C614_10-C614_63,C617_10-C617_63,C619_10-C619_63, C622_10-C622_63, C623_10-C623_63,C624_10-C624_63, C628_10-C628_63, C631_10-C631_63,C632_10-C632_63, C633_10-C633_63, C634_10-C634_63,C635_10-C635_63, C636_10-C636_63, C637_10-C637_63,C638_10-C638_63, C639_10-C639_63, C640_10-C640_63,C648_10-C648_63, C650_10-C650_63
25500-P-000015	Quantity changed from 92 to 201 <i>Ref. Des. Added:</i> C2680-C2681,C2704-C2705,C2708-C2709, C2712-C2714,C2720-C2815,C4167-C4170
25500-P-000017	Quantity changed from 8 to 7 <i>Ref. Des. Removed:</i> R302
25500-P-000020	Quantity changed from 6 to 16 <i>Ref. Des. Added:</i> R2608-R2616, R2618
25500-P-000022	Quantity changed from 218 to 220 <i>Ref. Des. Added:</i> C2685, C2717
25500-P-000023	Quantity changed from 9 to 13 <i>Ref. Des. Added:</i> L612, L618, L683-L684
25500-P-000025	Quantity changed from 13 to 141 <i>Ref. Des. Added:</i> R3247-R3374
25500-P-000035	Added to BOM. <i>Ref. Des. Added:</i> R2526-R2589,R2593,R2596,R2598,R2600, R2602,R2604,R2606-R2607
25500-P-000040	Quantity changed from 532 to 608 <i>Ref. Des. Added:</i> R302, R425-R430, R432, R434-R436, R603, R2617, R603_1-R603_9, R603_10-R603_63
25500-P-000049	Quantity changed from 1872 to 108 <i>Ref. Des. Removed:</i> C94-C96,C101,C106,C114,C117,C121,C125, C158,C161, C164,C167,C170,C173,C176,C179,C195-C197, C205-C207, C214-C216,C224-C226,C234,C237,C241,C244, C246,C251,C255,C262,C293,C296,C298,C303,C305,C308, C318-C320,C359,C362,C367,C371,C376,C380,C384,C475-C477,C483,C489-C490,C495-C497, C503,C509-C510,C512, C514-C515,C601,C604,C607, C613,C619,C622,C638-C640, C648,C650,-C1909,C2012-C2031,C2033-C2040,C94_1-C94_9, C95_1-C95_9,C96_1-C96_9,C101_1-C101_9,C106_1-C106_9, C114_1-C114_9,C117_1-C117_9,C121_1-C121_9,C125_1-C125_9,C158_1-C158_9,C161_1-C161_9,C164_1-C164_9, C167_1-C167_9, C170_1-C170_9,C173_1-C173_9,C176_1-C176_9,C179_1-C179_9,C195_1-C195_9,C196_1-C196_9, C197_1-C197_9,C205_1-C205_9,C206_1-C206_9, C207_1-C207_9,C214_2,C214_4,C214_6,C214_8,C215_2,C215_4, C215_6, C215_8,C216_2,C216_4,C216_6,C216_8,C224_2,

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25500-P-000050	Quantity changed from 2183 to 97 <i>Ref. Des. Removed:</i> C99-C100,C103-C105,C111-C112,C115,C118,C122,C126,C159,C162,C165,C168,C171,C174,C177,C180-C181,C183,C188-C194,C217-C219,C227-C229,C235,C238,C242,C245,C247,C252,C256,C259,C261,C263,C289,C294,C299,C301,C304,C306,C360,C363,C368,C372,C377,C381,C383,C466-C471,C480-C482,C487-C488,C494,C500-C502,C507-C508,C511,C513,C516-C525,C602,C605,C611,C614,C617,C623,C631-C637,C2041-C2067,C2069-C2075,C99_1-C99_9,C100_1-C100_9,C103_1-C103_9,C104_1-C104_9,C105_1-C105_9,C111_1-C111_9,C112_1-C112_9,C115_1-C115_9,C118_1-C118_9,C122_1-C122_9,C126_1-C126_9,C159_1-C159_9,C162_1-C162_9,C165_1-C165_9,C168_1-C168_9,C171_1-C171_9,C174_1-C174_9,C177_1-C177_9,C180_1-C180_9,C181_1-C181_9,C183_1-C183_9,C188_1-C188_9,C189_1-C189_9,C190_1-C190_9,C191_1-C191_9,C192_1-C192_9,C193_1-C193_9,C194_1-C194_9,C217_2,C217_4,C217_6,C217_8,C218_2,C218_4,C218_6,C218_8,C219_2,C219_4,C219_6,C219_8,C227_2,C227_4,C227_6,C227_8,C228_2,C228_4,C228_6,C228_8,C229_2,C229_4,C229_6,C229_8,C602_1-C602_9,C605_1-C605_9,C611_1-C611_9,C614_1-C614_9,C617_1-C617_9,C623_1-C623_9,C631_1-C631_9,C632_1-C632_9,C633_1-C633_9,C634_1-C634_9,C635_1-C635_9,C636_1-C636_9,C637_1-C637_9,C99_10-C99_63,C100_10-C100_63,C103_10-C103_63,C104_10-C104_63,C105_10-C105_63,C111_10-C111_63,C112_10-C112_63,C115_10-C115_63,C118_10-C118_63,C122_10-C122_63,C126_10-C126_63,C159_10-C159_15,C162_10-C162_15,C165_10-C165_15,C168_10-C168_15,C171_10-C171_15,C174_10-C174_15,C177_10-C177_15,C180_10-C180_15,C181_10-C181_15,C183_10-C183_15,C188_10-C188_15,C189_10-C189_15,C190_10-C190_15,C191_10-C191_15,C192_10-C192_15,C193_10-C193_15,C194_10-C194_15,C217_10,C217_12,C217_14,C217_16,C217_18,C217_20,C217_22,C217_24,C217_26,C217_28,C217_30,C217_32,C217_34,C217_36,C217_38,C217_40,C217_42,C217_44,C217_46,C217_48,C217_50,C217_52,C217_54,C217_56,C217_58,C217_60,C217_62,C218_10,C218_12,C218_14,C218_16,C218_18,C218_20,C218_22,C218_24,C218_26,C218_28,C218_30,C218_32,C218_34,C218_36,C218_38,C218_40,C218_42,C218_44,C218_46,C218_48,C218_50,C218_52,C218_54,C218_56,C218_58,C218_60,C218_62,C219_10,C219_12,C219_14,C219_16,C219_18,C219_20,C219_22,C219_24,C219_26,C219_28,C219_30,C219_32,C219_34,C219_36,C219_38,C219_40,
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	C219_42,C219_44,C219_46,C219_48,C219_50,C219_52,C219_54,C219_56,C219_58,C219_60,C219_62,C227_10,C227_12,C227_14,C227_16,C227_18,C227_20,C227_22,C227_24,C227_26,C227_28,C227_30,C227_32,C227_34,C227_36,C227_38,C227_40,C227_42,C227_44,C227_46,C227_48,C227_50,C227_52,C227_54,C227_56,C227_58,C227_60,C227_62,C228_10,C228_12,C228_14,C228_16,C228_18,C228_20,C228_22,C228_24,C228_26,C228_28,C228_30,C228_32,C228_34,C228_36,C228_38,C228_40,C228_42,C228_44,C228_46,C228_48,C228_50,C228_52,C228_54,C228_56,C228_58,C228_60,C228_62,C229_10,C229_12,C229_14,C229_16,C229_18,C229_20,C229_22,C229_24,C229_26,C229_28,C229_30,C229_32,C229_34,C229_36,C229_38,C229_40,C229_42,C229_44,C229_46,C229_48,C229_50,C229_52,C229_54,C229_56,C229_58,C229_60,C229_62,C602_10-C602_63,C605_10-C605_63,C611_10-C611_63,C614_10-C614_63,C617_10-C617_63,C623_10-C623_63,C631_10-C631_63,C632_10-C632_63,C633_10-C633_63,C634_10-C634_63,C635_10-C635_63,C636_10-C636_63,C637_10-C637_63
25500-P-000096	Added to BOM. <i>Ref. Des. Added:</i> F3
25500-P-000099	Quantity changed from 220 to 286 <i>Ref. Des. Added:</i> L610-L611,L619-L682
25500-P-000121	Quantity changed from 18 to 8 <i>Ref. Des. Removed:</i> R425-R430,R432,R434-R436
25500-P-000130	Removed from BOM <i>Ref. Des. Removed:</i> C128,C187,C2076-C2077,C128_1-C128_9,C187_1-C187_9,C128_10-C128_63,C187_10-C187_15
25500-P-000133	Quantity changed from 129 to 1 <i>Ref. Des. Removed:</i> C657-C658,C657_1-C657_9,C658_1-C658_9,C657_10-C657_63,C658_10-C658_63
25500-P-000140	Removed from BOM <i>Ref. Des. Removed:</i> C1846-C1847,C1849-C1851,C1853,C1855-C1859,C1861-C1863,C1865,C1867-C1871,C1873-C1875,C1877-C1881,C1883-C1887,C1889,C1891-C1893,C1895,C1897
25500-P-000141	Added to BOM <i>Ref. Des. Added:</i> R3245-R3246
25500-P-000149	Quantity changed from 15 to 2 <i>Ref. Des. Removed:</i> C1848,C1852,C1854,C1860,C1864,C1866,C1872,C1876,C1882,C1888,C1890,C1894,C1896
25500-P-000151	Removed from BOM <i>Ref. Des. Removed:</i> TSW1-TSW2

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25500-P-000152	Quantity changed from 39 to 4 <i>Ref. Des. Removed:</i> R2016-R2025,R2027,R2036-R2049,R2051, R2056-R2064
25500-P-000171	Added to BOM <i>Ref. Des. Added:</i> C4033,C4101-C4164
25500-P-000172	Removed from BOM <i>Ref. Des. Removed:</i> L606-L609
25500-P-000188	Added to BOM <i>Ref. Des. Added:</i> C128,C187,C657-C658,C2076-C2077,C2682- C2683,C4034-C4036,C4318-C4333,C128_1-C128_9,C187_1- C187_9,C657_1-C657_9,C658_1-C658_9,C128_10-C128_63, C187_10-C187_15,C657_10-C657_63,C658_10-C658_63
25500-P-000189	Added to BOM <i>Ref. Des. Added:</i> TSW1-TSW2
25500-P-000191	Added to BOM <i>Ref. Des. Added:</i> L613-L617
25500-P-000192	Added to BOM <i>Ref. Des. Added:</i> C4037-C4100
25500-P-000193	Added to BOM <i>Ref. Des. Added:</i> C2944-C3007,C4032,C4173
25500-P-000194	Added to BOM <i>Ref. Des. Added:</i> R2621-R3244
25500-P-000195	Added to BOM <i>Ref. Des. Added:</i> C4174-C4301
25500-P-000197	Added to BOM <i>Ref. Des. Added:</i> R2016-R2017,R2020,R2022-R2025,R2027, R2040-R2049, R2051,R2058-R2064
25500-P-000198	Added to BOM <i>Ref. Des. Added:</i> C2706-C2707,C2710-C2711,C4165-C4166, C4171-C4172
25500-P-000199	Added to BOM <i>Ref. Des. Added:</i> C1846-C1897
<i>File Version: V2.1; File Date: June 23, 2008</i> <i>The BOMaux file has had the following changes made since the previous version:</i>	
25500-M-000201	Added to BOMaux. <i>Ref. Des. Added:</i> HS1
25500-P-000200	Added to BOMaux <i>Ref. Des. Added:</i> SNT1-SNT3
25500-B-000014	Removed from BOM. <i>Ref. Des. Removed:</i> N/A
25500-B-000018	Added to BOM <i>Ref. Des. Added:</i> N/A

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File Version: V2.1; File Date: June 23, 2008	
The BOMnotes file has had the following changes made since the previous version:	
Revision	Changed from V2.0 (Stage 2) to V2.1 (Stage 3). References are now made to the V2.1 of the Baseline Board BOM and BOM aux.
Information Update	Removed parts not being supplied by NRC from Special Pricing section.
Information Update	Already purchased components section has been updated.
Information Update	Misc. Parts Notes section updated.

V2.1: Full release for Stage 3 build.

Change Reference	Description of changes/updates since last release
File Version: V2.1; File Date: July 21, 2008	
The BOM file has had the following changes made since the previous version:	
25500-P-000106	Added to BOM. <i>Ref. Des. Added:</i> RC1,RC1_14,RC1_57-RC1_72,RC1_329,RC1_378,RC1_427-RC1_435
25500-P-000154	Removed from BOM. <i>Ref. Des. Removed:</i> RC1,RC1_14,RC1_57-RC1_72,RC1_329,RC1_378,RC1_427-RC1_435

V2.2: Full release for Stage 3-2 build.

Change Reference	Description of changes/updates since last release
File Version: V2.2; File Date: January 28, 2009	
The BOM file has had the following changes made since the previous version:	
25500-L-000026	Removed from BOM <i>Ref. Des. Removed:</i> LB1
25500-L-000031	Added to BOM <i>Ref. Des. Added:</i> LB1
25500-P-000000	Quantity changed from 171 to 179 <i>Ref. Des. Added:</i> R2608-R2615
25500-P-000004	Quantity changed from 261 to 197 <i>Ref. Des. Removed:</i> R602,R602_1-R602_9,R602_10-R602_63
25500-P-000013	Quantity changed from 7939 to 7949 <i>Ref. Des. Added:</i> C4424-C4433
25500-P-000015	Quantity changed from 201 to 193 <i>Ref. Des. Removed:</i> C2704-C2705,C2708-C2709,C4167-C4170
25500-P-000020	Quantity changed from 16 to 8 <i>Ref. Des. Removed:</i> R2608-R2615
25500-P-000035	Quantity changed from 72 to 77 <i>Ref. Des. Added:</i> R383,R385,R387,R393,R395

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25500-P-000037	Removed from BOM <i>Ref. Des. Removed:</i> R383,R385,R387,R393,R395
25500-P-000040	Quantity changed from 608 to 672 <i>Ref. Des. Added:</i> R602,R602_1-R602_9,R602_10-R602_63
25500-P-000050	Quantity changed from 97 to 183 <i>Ref. Des. Added:</i> C4338-C4423
25500-P-000106	Removed from BOM <i>Ref. Des. Removed:</i> RC1,RC1_14,RC1_57-RC1_72,RC1_329,RC1_378,RC1_427-RC1_435
25500-P-000154	Added to BOM <i>Ref. Des. Added:</i> RC1,RC1_14,RC1_57-RC1_72,RC1_329,RC1_378,RC1_427-RC1_435
25500-P-000198	Quantity changed from 8 to 16 <i>Ref. Des. Added:</i> C2704-C2705,C2708-C2709,C4167-C4170
Change Reference	Description of changes/updates since last release
<i>File Version: V2.2; File Date: February02, 2009</i>	
<i>The BOMaux file has had the following changes made since the previous version:</i>	
25500-B-000018	Removed from BOM. <i>Ref. Des. Removed:</i> N/A
25500-B-000019	Added to BOM <i>Ref. Des. Added:</i> N/A
<i>File Version: V2.2; File Date: February 02, 2009</i>	
<i>The BOMnotes file has had the following changes made since the previous version:</i>	
Revision	Changed from V2.1 (Stage 3) to V2.2 (Stage 3-2). References are now made to the V2.2 of the Baseline Board BOM and BOM aux.
Information Update	Updated quantities for this stage
Information Update	Already purchased components section has been updated, see yellow highlighted section.
Information Update	Misc. Parts Notes section updated.

V2.2: Full release for Stage 4 build.

Change Reference	Description of changes/updates since last release
<i>File Version: V2.2b; File Date: January 28, 2009</i>	
<i>The BOM file has had the following changes made since the previous version:</i>	
Change Reference	Description of changes/updates since last release
<i>File Version: V2.2; File Date: February02, 2009</i>	
<i>The BOMaux file has had the following changes made since the previous version:</i>	
<i>File Version: V2.2; File Date: June 16, 2009</i>	
<i>The BOMnotes file has had the following changes made since the previous version:</i>	
Build Stage	Changed from Stage 3-2 to Stage 4.
Information Update	Updated quantities for this stage
Information Update	Already purchased components section has been updated, see

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	yellow highlighted section.
Information Update	Misc. Parts Notes section updated.

Introduction

This file contains a description of the BOM (Bill of Materials) for the Baseline Board V2.2 Assembly 25080. 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.

This file is applicable to the version 2.2 of the Baseline Board Assembly Bill of Materials for the **Stage 4 production assembly**. Note: The “WIDAR Part No.” is the NRC internal part number and is the “part number” column in the BOM.

Quantities

The Stage 4 build requires Qty=146 functional boards delivered to NRC Penticton.

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. **Please use the distributors where noted for component acquisition.**

Pricing concerns are primarily for quantities for **Stage 4 production only**, and it is expected that Stage 1, 2, and 3 pricing will be higher.

Pricing that BMS obtains for these components should be the best price available from the distributor and should be less than or equal to the prices in this table.

In addition, components for which pricing has been obtained generally is included as well—in this case the distributor is not defined and BMS is free to use any distributor to source these components, but should obtain best pricing that is less than or equal to the price in the table to stay within our budget. If pricing BMS obtains is greater than 1% of pricing in this table, please contact NRC to resolve the situation.

All dollar amounts are in USD unless otherwise noted.

SHADED regions contain pricing information only; all of these components are purchased by NRC and shipped to BMS on consignment.

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WIDAR Part No.	Mfg Part No.	Mfg	Price ea	Price @ Qty	Distributor
25500-A-000050	EP1SGX25C-F672-C5	Altera	\$300	300	Arrow/Bell - Vancouver
25500-A-000057	EP2S30-F672-C4	Altera	\$187.50	2500	Arrow/Bell - Vancouver
25500-A-000066	IDT70V 3319S133BC	IDT	\$67.75	5472	Arrow/Bell - Vancouver
25500-A-000071	MT46V32M16TG-6T:F	Micron	\$4.87	14000	Arrow/Bell - Vancouver
25500-A-000074	CA2048CL-F672C256-A	iSine	\$161.00	12000	iSine
25500-A-000079	VR2001	iSine	\$5.00	12000	iSine
25500-A-000118	EP2S60-F672-C4	Altera	\$380.00	322	Arrow/Bell - Vancouver
25500-A-000120	EP1C12F256C6	Altera	\$23.00	10600	Arrow/Bell - Vancouver

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 nd Mfg Part No.	2 nd Mfg

Already Purchased Components

All Stage 4 supplied parts sent to BreconRidge in Jan/Feb 2009 along with all other production consignment parts, except the Correlator Chip (25500-A-000074) which was sent directly from the test house in approximately Oct 2008.

The components in the following table are the minimum required quantities for Stage 4 production. Actual quantities in stock at BreconRidge may vary depending on the consumption incurred at Stage 3-2 and various spares available.

WIDAR Part No.	Mfg Part No.	Mfg	Qty purch	Description (+ previous purchase information)
25500-A-000050	EP1SGX25C-F672-C5	Altera	146	Stratix Gx EP1SGX25C F672 Speed 5

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25500-A-000057	EP2S30-F672-C4	Altera	2336	Stratix II EP2S30 F672 Speed 4
25500-A-000066	IDT70V3319S13 3BC	IDT	4672	DPSRAM 256kx18, 133 MHz, 256-pin BGA
25500-A-000071	MT46V32M16T G-6T:F	Micron	9344	512Mb DDR SDRAM - 6Tspd TSOP 1/2Strength
25500-A-000074	CA2048CL-F672C256-A	iSine	9344	ASIC 2048 complex-lag Corr. F672 C256
25500-A-000118	EP2S60-F672-C4	Altera	292	Stratix II EP2S60 F672 Speed 4
25500-A-000120	EP1C12F256C6	Altera	9928	Cyclone EP1C12-F256-C6
25500-A-000145	VR2001C	iSine	9344	Accel regulator, QFN24-5mmx5mm rev C

Misc 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	Pro soft touch footprint	J5,J5_1-J5_15	Footprint only: <u>DO NOT INSTALL</u>
TESTPOINT-THRU	TESTPOINT-THRU	TP13-TP16	Footprint only: <u>DO NOT INSTALL.</u>
TESTPOINT-SMD	TESTPOINT-SMD	TP1-TP9,TP1_1-TP1_9, TP2_1-TP2_9,TP3_1-TP3_9,TP422-TP429, TP4_1-TP4_9,TP5_1-TP5_9,TP1_10-TP1_63,- TP2_10-TP2_63,TP3_10-TP3_63,TP4_10-TP4_63, TP5_10-TP5_63,TP6_342, TP6_347,TP6_352, TP6_357,TP6_362, TP6_367,TP6_372, TP6_377,TP6_391, TP6_396,TP6_401, TP6_406,TP6_411, TP6_416,TP6_421, TP7_342,TP7_347, TP7_352,TP7_357, TP7_362,TP7_367, TP7_372,TP7_377, TP7_391,TP7_396, TP7_401,TP7_406,	Footprint only: <u>DO NOT INSTALL.</u>

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		TP7_411,TP7_416, TP7_421,TP8_342, TP8_347,TP8_352, TP8_357,TP8_362, TP8_367,TP8_372, TP8_377,TP8_391, TP8_396,TP8_401, TP8_406,TP8_411, TP8_416,TP8_421, TP9_342,TP9_347, TP9_352,TP9_357, TP9_362,TP9_367, TP9_372,TP9_377, TP9_391,TP9_396, TP9_401,TP9_406, TP9_411,TP9_416, TP9_421	
25500-N-000032	V23838-S5-N1-BB	CAGE3-CAGE4	Footprint only: <u>DO NOT INSTALL</u>
25500-P-000000	ERJ2GE0R00X	R213-R220,R6,R6_1- R6_15,R267-R268,R1546- R1551,R271-R276,R279- R280,R283-R288,R1554- R1555,R700,R700_1- R700_63	Footprint only: <u>DO NOT INSTALL.</u>
25500-P-000003	ERJ2RKF4301X	R610,R610_1-R610_63	Footprint only: <u>DO NOT INSTALL.</u>
25500-P-000004	ERJ2RKF1002X	R130-R131,R134-R139, R142-R143,R146-R151, R1479-1480,R1516- R1521,R1525-R1526	Footprint only: <u>DO NOT INSTALL.</u>
25500-P-000035	ERJ2RKF1004X	R2526,R2589,R2593, R2596,R2598,R2600, R2602, R2604,R2606- R2607	Footprint only: <u>DO NOT INSTALL</u>
25500-P-000197	ERJ6ENF1004V	R2016-R2017,R2020, R2022-R2025,R2027, R2040-R2049,R2051, R2058-R2064	Footprint only: <u>DO NOT INSTALL.</u>
25500-N-000056	0342-0-15-15-42- 27-10-0	P2,P6,P13-P14,P21-P22, P29-P30,P37-P38,P44-P45, P50,P54,P60,P64,P66,P72, P74,P80,P82,P88,P90,P96, P98,P104	Footprint only: <u>DO NOT INSTALL.</u>
25500-N-000029	1367073-1	J13-J14	Footprint only: <u>DO</u>

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			<u>NOT INSTALL.</u>
25500-P-000099	BLM18PG121SN 1	L611	Footprint only: <u>DO NOT INSTALL.</u>
25500-P-000009	ERJ2RKF1000X	R2521-R2525	Footprint only: <u>DO NOT INSTALL.</u>
25500-P-000194	ERJ1GE0R00C	R2621-R3244	Footprint only: <u>DO NOT INSTALL.</u>

Special Build Parts

This section contains references to special build parts, and associated drawings. Any drawing files are contained within the “Drawings” .zip file. **The items in this table are only special build parts that BMS fabricates as part of the build for this assembly.** This table does not contain descriptions of production tooling required by BMS. In many cases, this table is blank.

WIDAR Part No.	Drawing No./ file name	Description