

# Storage Bridge Bay (SBB) Specification 1.0 Errata

Revision B

January 14, 2007



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# Revision History

<b>Revision</b>	<b>Date</b>	<b>Sections</b>	<b>Originator:</b>	<b>Comments</b>
A	9/21/2006		Bill Dawkins	Errata for the 1.0 Specification
B	1/12/2007		Bill Dawkins	Errata for the 1.0 Specification

## Typographical Conventions

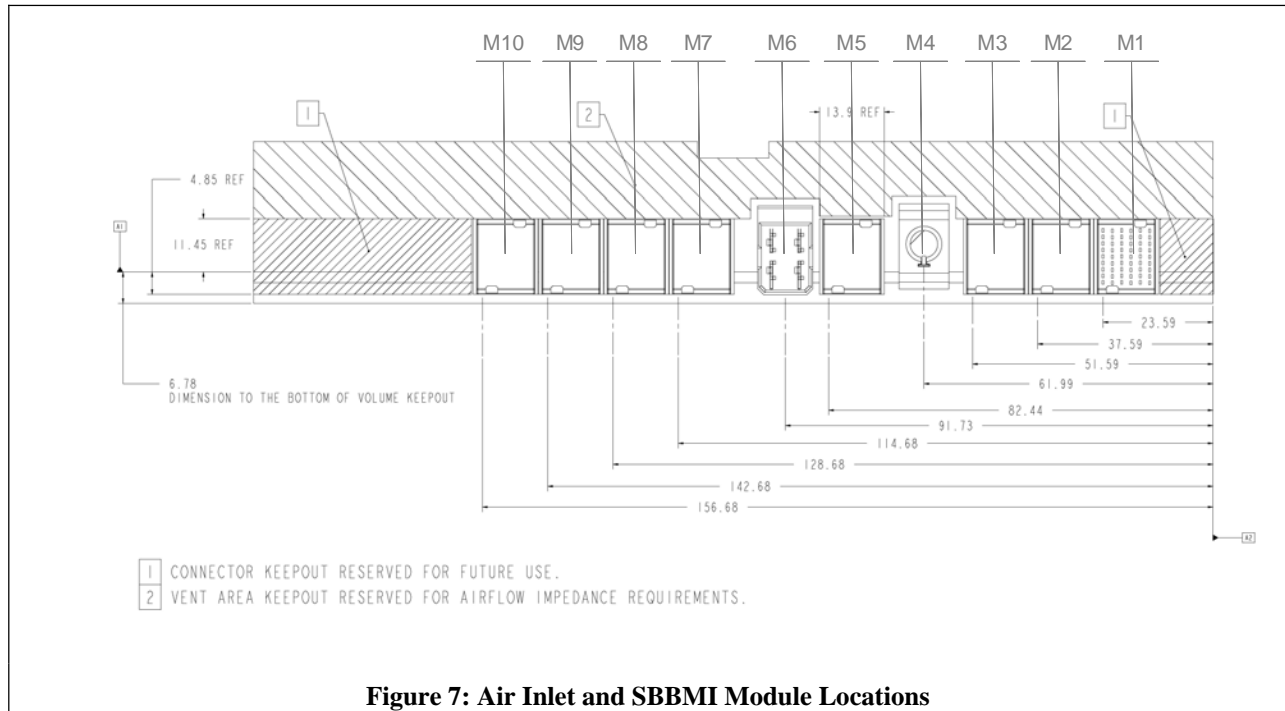
The key words “**MUST**”, “**MUST NOT**”, “**REQUIRED**”, “**SHALL**”, “**SHALL NOT**”, “**SHOULD**”, “**SHOULD NOT**”, “**RECOMMENDED**”, “**MAY**”, and “**OPTIONAL**” in this document are to be interpreted as described in RFC2119 [<http://www.ietf.org/rfc/rfc2119.txt>].

# Introduction

This document contains errata to SBB Specification Version 1.0. It is the intention of the SBB Working Group to incorporate the errata in the next revision of the SBB specification.

## Section 2.1

The dimensions listed in Figure 7 for some of the signal module locations are incorrect. Figure 7 will be replaced with the following figure that contains the correct dimensions:



**Figure 7: Air Inlet and SBBMI Module Locations**

### Section 2.3.3.1

The last sentence of the second paragraph in this section erroneously contains the word “relative.” The sentence will be replaced with the following sentence that deletes the word “relative.”

The important point being that the position of the external pins **MUST** [26] remain fixed to the board volume constraints described in **Error! Reference source not found.** and SBBMI module locations described Figure .

### Section 2.3.3.1

The SBBMI canister power header described in this section could have a smaller height dimension from reference plane A1 and be fully compatible with the SBBMI midplane power receptacle. Figure 15 will be replaced with the following figure.

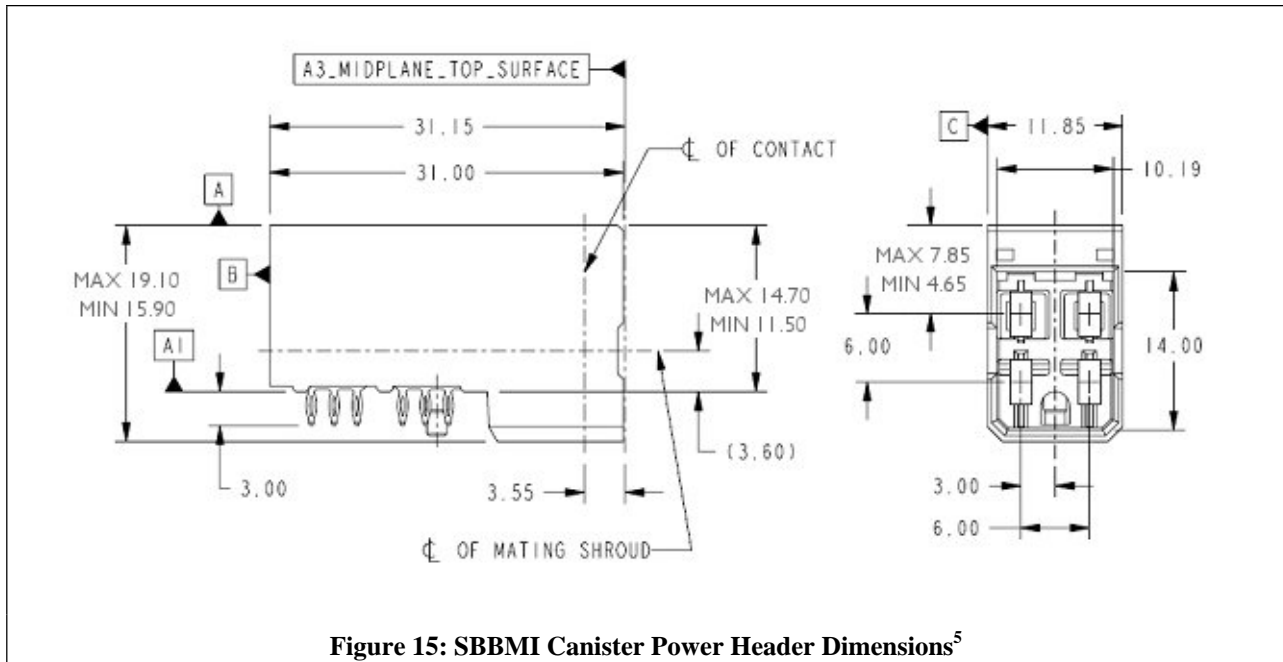


Figure 15: SBBMI Canister Power Header Dimensions<sup>5</sup>

### Section 2.3.3.1

One of the dimensions listed in Figure 16 is incorrect. Figure 16 will be replaced with the following figure.

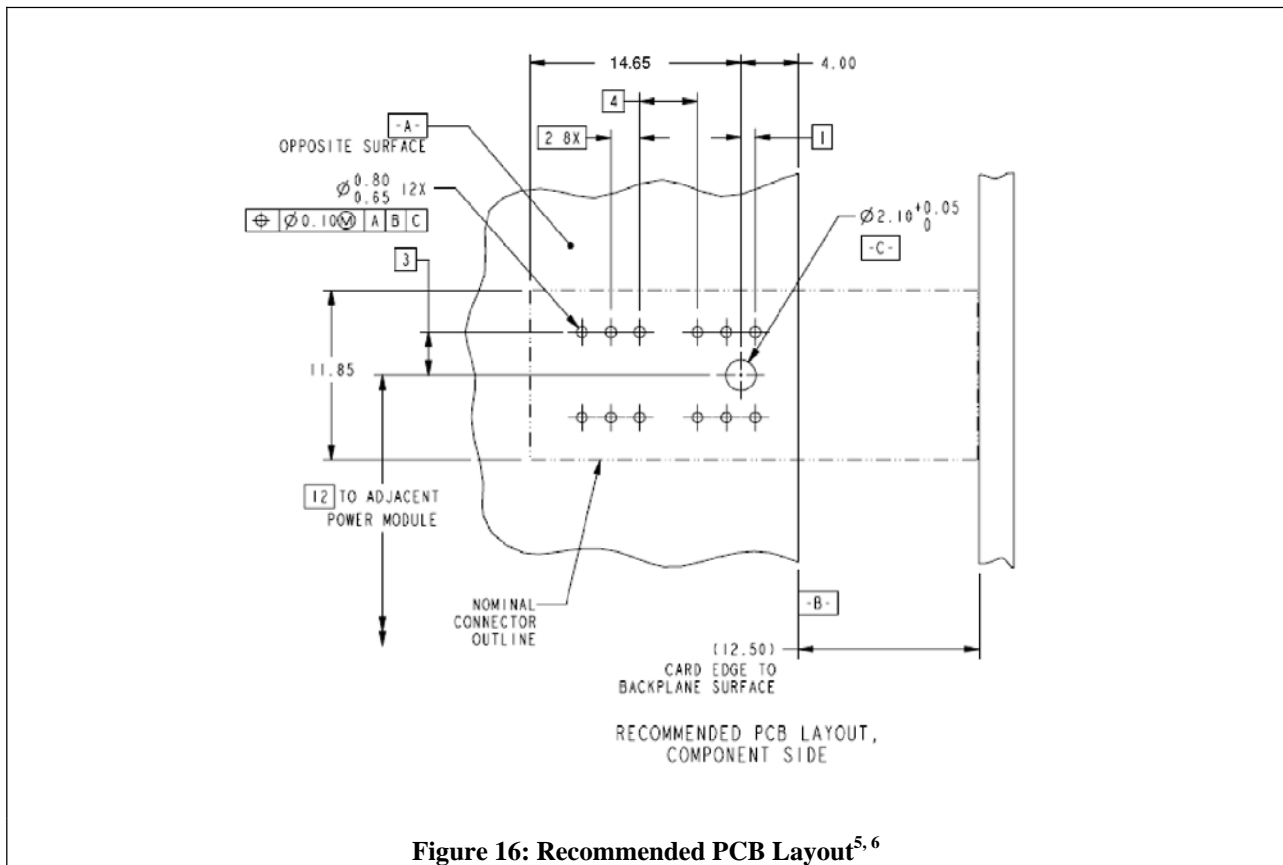
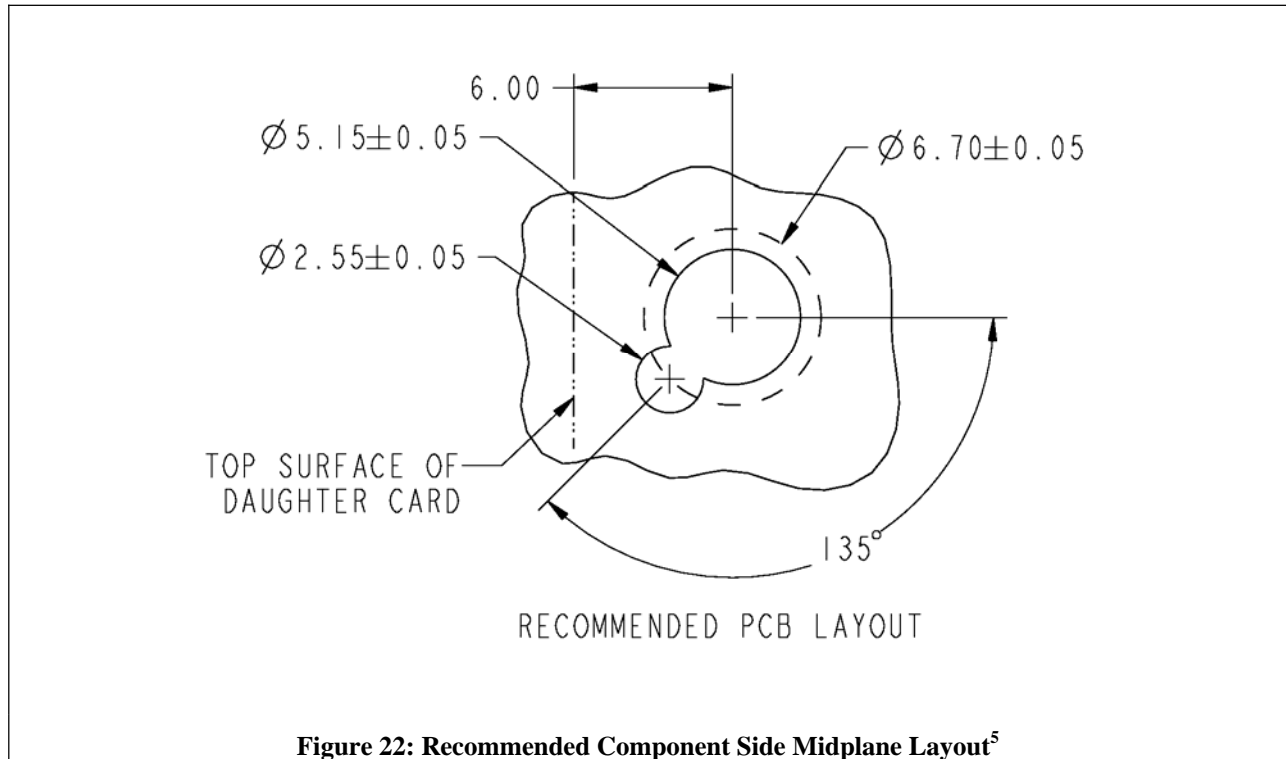


Figure 16: Recommended PCB Layout<sup>5,6</sup>

## Section 2.3.4.2

The dimension shown in Figure 22 for the distance from the “Top Surface of Daughter Card” to the center of the guide pin is incorrect. Figure 22 will be replaced with the following figure that contains the correct dimension.



## Section 3.6

The caption for Table 10 uses the term “Primary Power.” This term should not be present. The caption for Table 10 will be replaced with the following text.

**Table 10: SBB Canister Input Capacitance**

## Section 5.1.4

Table 14 lists M2 as the module on which DRIVE\_[2:28]\_FAULT\_L, DRIVE\_[2:28]\_GPO\_L, and DRIVE\_[2:28]\_INPL\_L reside. The table should indicate that these signals reside on various modules. Table 14 will be replaced with the following table:

**Table 14: SBBMI Low-Speed Drive Status Signals**

Signal Name	Module	Description	Input / Output <sup>3</sup>	Pull-up (C/O <sup>4</sup> )	Required/Optional	
					Canister	Midplane
DRIVE_1_FAULT_L	M2	Active low output to drive the fault LED on	O <sub>OD2</sub>	O	Required	Required
DRIVE_1_GPO_L	M2	General purpose output. MAY be used as an activity LED driver.	O <sub>OD2</sub>	O	Optional	Optional
DRIVE_1_INPL_L	M2	Active low input signal that indicates a drive is inserted into the physical slot mapped to this drive port.	I <sub>pull-up</sub>	C	Required	Required
DRIVE_[2:28]_FAULT_L	Various	Active low output to drive the fault LED on.	O <sub>OD2</sub>	O	Optional <sup>1</sup>	Optional <sup>2</sup>
DRIVE_[2:28]_GPO_L	Various	General purpose output. MAY be used as an Activity LED driver.	O <sub>OD2</sub>	O	Optional	Optional
DRIVE_[2:28]_INPL_L	Various	Active low input signal that indicates a drive is inserted into the physical slot mapped to this drive port.	I <sub>pull-up</sub>	C	Optional <sup>1</sup>	Optional <sup>2</sup>

Note <sup>1</sup>: Signals are only optional if the drive is not supported by the canister

Note <sup>2</sup>: Signals are only optional if the drive is not supported by the enclosure

Note <sup>3</sup>: See **Error! Reference source not found.** for I/O signal characteristics

Note <sup>4</sup>: Denotes location of pull-up (C – inside canister, O – outside canister)

## Section 5.1.6

Table 15 lists M3 as the module on which LS[1:8]\_AB and LS[1:8]\_BA reside. The table should indicate that LS[8]\_AB and LS[8]\_BA reside on module M1. Table 15 will be replaced with the following table:

**Table 15: SBBMI Low-Speed Inter-Canister Communication Signals**

Signal Name	Module	Description	Input / Output <sup>1</sup>	Required / Optional	
				(Canister)	(Midplane)
LS[1:7]_AB	M3	General purpose inter-canister output	O <sub>PPL</sub>	Optional	Required <sup>2</sup>
LS[1:7]_BA	M3	General purpose inter-canister input.	I <sub>TTL</sub>	Optional	Required <sup>2</sup>
LS[8]_AB	M1	General purpose inter-canister output	O <sub>PPL</sub>	Optional	Required <sup>2</sup>
LS[8]_BA	M1	General purpose inter-canister input.	I <sub>TTL</sub>	Optional	Required <sup>2</sup>

Note <sup>1</sup>: See **Error! Reference source not found.** for I/O signal characteristics

Note <sup>2</sup>: Signals are only required if enclosure supports dual canisters

## Section 5.4.1

For consistency, Table 22 needs to state that M1 is only required on the midplane when the enclosure supports dual canisters. Table 22 will be replaced with the following table.

**Table 22: Module Descriptions**

Module Designation	Module Type	Description	Required Optional	
			Canister	Midplane
M1	Signal	High-speed inter-canister and	Optional	Required <sup>1</sup>

		enclosure support signals		
M2	Signal	Support for drives 1 – 6	Required	Required
M3	Signal	Low-speed inter-canister and enclosure support signals	Required	Required
M4	Guide	Mechanical guide pin and receptacle	Required	Required
M5	Signal	Fibre channel drive support	Optional	Optional
M6	Power	Power header and receptacle	Required	Required
M7	Signal	Support for drives 7 – 12	Optional	Optional
M8	Signal	Support for drives 13 – 18	Optional	Optional
M9	Signal	Support for drives 19 – 24	Optional	Optional
M10	Signal	Support for drives 25 – 28	Optional	Optional

Note <sup>1</sup>: Signals are only required if enclosure supports dual canisters

## Section 5.4.4

The first sentence mistakenly states that “M1 is composed entirely of signals used for communication between redundant SBB canisters.” This sentence will be replaced with the following text.

M1 contains signals used for communication between redundant SBB canisters as well as signals used for power supply monitoring and standby power.

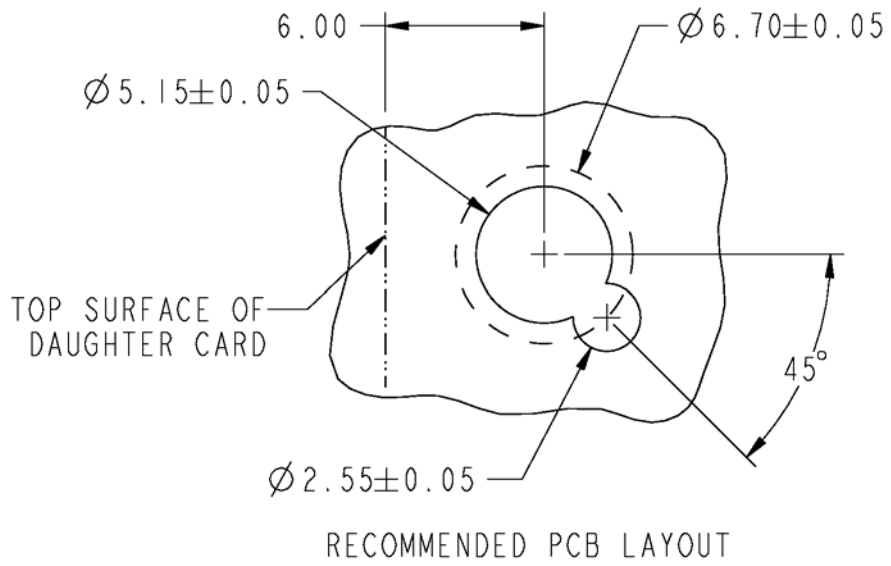
## Appendix 4.1.1

Footnote 2 does not apply to Figure A-15. Footnote 2 will be deleted and the caption for Figure A-15 will be replaced with the following text:

**Figure A - 15: Recommended PCB Layout<sup>1</sup>**

## Appendix 4.1.2

The dimension shown in Figure A – 17 for the distance from the “Top Surface of Daughter Card” to the center of the guide pin is incorrect. Figure A – 17 will be replaced with the following figure that contains the correct dimension.



**Figure A - 15: Recommended Component Side Midplane Layout<sup>1</sup>**