

**Proposed
Draft**

**Serial ATA
International Organization**

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**Serial ATA Technical Proposal # TPR_C113
Title : 9 mm SATA USM**

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Introduction

The success of the SATA USM product with a 14.5 mm thickness has resulted in market opportunity to include a 9 mm version, expanding the SATA USM form factor offerings for additional products. This Technical Proposal adds the 9 mm USM form factor to Serial ATA Revision 3.1.

1 Technical Specification Changes

6.6 SATA USM Connector Location

[**Editor's Note:** The changes marked in [blue](#) (and underlined/strikethrough) are to be incorporated in section 6.6. Only the figure and table titles are included for the 14.5 mm version (already documented in Serial ATA 3.1) since the figure and table content does not change. The figure 98 added is not blue or underlines and the new table 19 entries are not underlined for easier viewing.]

The SATA USM connector location is defined to facilitate blind mating. Figure 97 and Table 18 show the connector location on the [14.5 mm](#) SATA USM device. [Figure aa and Table bb show the connector location on the 9 mm SATA USM device.](#) The Serial ATA connector is located inside the SATA USM housing as indicated. See INF-8280 (available at <http://www.sffcommittee.org>) for additional details regarding the SATA USM.

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Figure 97 – [14.5 mm](#) SATA USM physical dimensions (see INF-8280)

Table 18 – [14.5 mm](#) SATA USM physical dimensions (See INF-8280)

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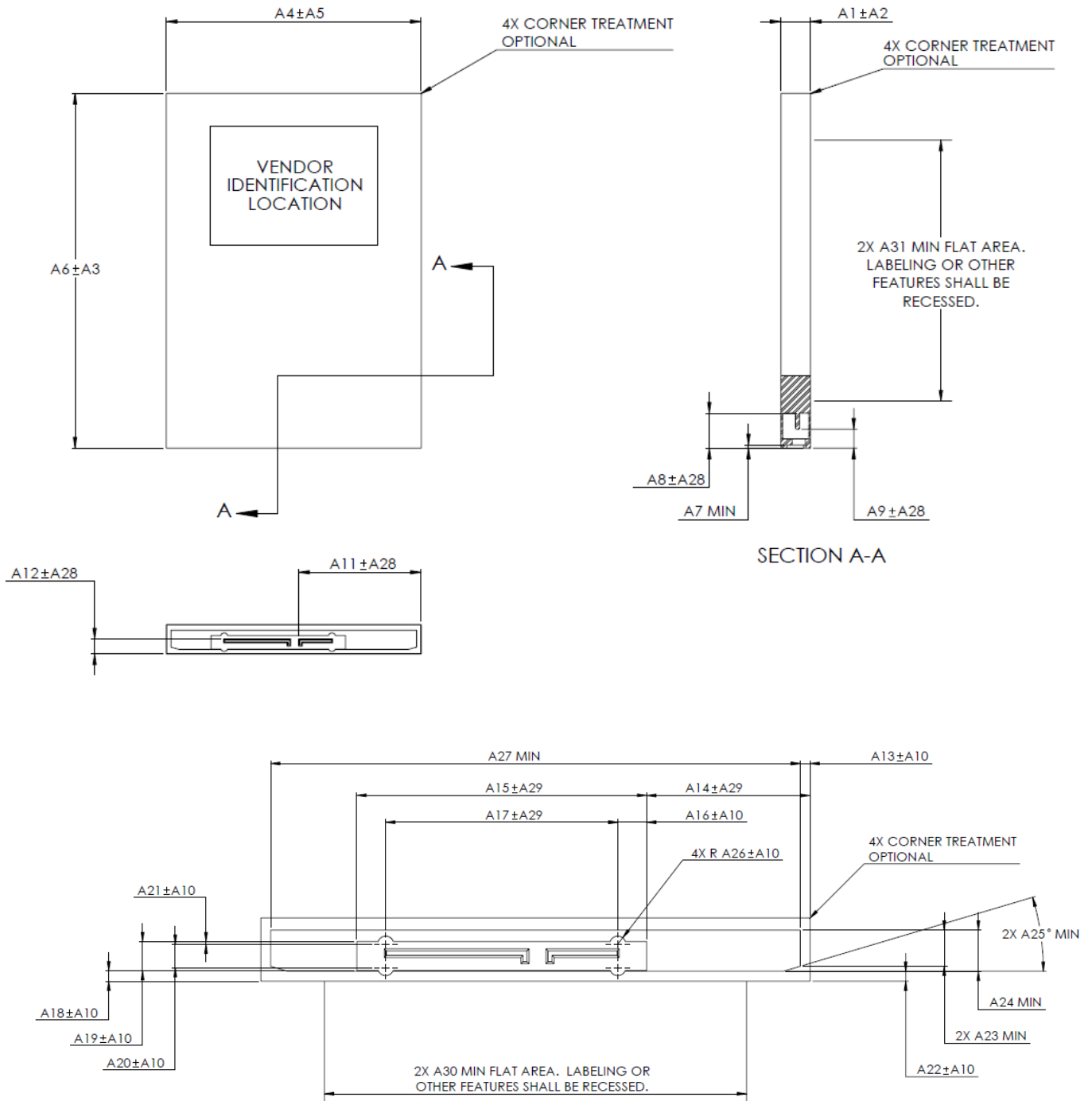


Figure aa – 9 mm SATA USM physical dimensions (see INF-8280)

Table bb – 9 mm SATA USM physical dimensions (See INF-8280)

Dimension	mm	inch
A1	9.00	0.354
A2	0.20	0.008
A3	1.0	0.039
A4	78.10	3.075
A5	0.20	0.008
A6	108.7	4.281
A7	1.00	0.039
A8	10.70	0.421
A9	5.80	0.228
A10	0.10	0.004
A11	37.55	1.478
A12	4.60	0.181
A13	1.41	0.056
A14	23.23	0.915
A15	41.22	1.623
A16	4.11	0.162
A17	33.00	1.299
A18	1.50	0.059
A19	4.13	0.163
A20	3.36	0.132
A21	0.36	0.014
A22	1.41	0.056
A23	5.14	0.202
A2	5.85	0.230
A25	15	15
A26	1.13	0.044
A27	75.28	2.964
A28	0.30	0.012
A29	0.20	0.008
A30	60.0	2.362
A31	80.00	3.150