3 x 4 SoM LSHM B2B Connectors

These connectors are hermaphroditic. Odd pin numbers on the module are connected to even pin numbers on the baseboard and vice versa.

3 x 4 modules use two Samtec Razor Beam LSHM connectors on the bottom side.

- 2 x REF-189016-02 (compatible to LSHM-150-04.0-L-DV-A-S-K-TR), (100 pins, "50" per row).

When using the same type on baseboard, the mating height is 8mm. Other mating heights are possible by using connectors with a different height.

Order number	Connector on baseboard	compatible to	Mating height
23836	REF-189016-01	LSHM-150-02.5-L-DV-A-S-K-TR	6.5 mm
	LSHM-150-03.0-L-DV-A-S-K-TR	LSHM-150-03.0-L-DV-A-S-K-TR	7.0 mm
23838	REF-189016-02	LSHM-150-04.0-L-DV-A-S-K-TR	8.0 mm
	LSHM-150-06.0-L-DV-A-S-K-TR	LSHM-150-06.0-L-DV-A-S-K-TR	10.0mm

Connectors.

The module can be manufactured using other connectors upon request.

Connector Speed Ratings

The LSHM connector speed rating depends on the stacking height; please see the following table:

Stacking height	Speed rating
12 mm, Single-Ended	7.5 GHz / 15 Gbps
12 mm, Differential	6.5 GHz / 13 Gbps
5 mm, Single-Ended	11.5 GHz / 23 Gbps
5 mm, Differential	7.0 GHz / 14 Gbps

Speed rating.

Current Rating

Current rating of Samtec Razor Beam™ LSHM B2B connectors is 2.0A per pin (2 adjacent pins powered).

Connector Mechanical Ratings

- Shock: 100G, 6 ms Sine
- Vibration: 7.5G random, 2 hours per axis, 3 axes total

Manufacturer Documentation

File	Modified
PDF File hsc-report_lshm-lshm-05mm_web.pdf	18 09, 2018 by Martin Rohrmüller
PDF File lshm_dv.pdf	18 09, 2018 by Martin Rohrmüller

PDF File	LSHM-1XX-XX.X-X-DV-A-X-X-TR-FOOTPRINT(1).pdf	18 09, 2018 by Martin Rohrmüller
PDF File	LSHM-1XX-XX.X-XX-DV-A-X-X-TR-MKT.pdf	18 09, 2018 by Martin Rohrmüller
PDF File	REF-189016-01.pdf	18 09, 2018 by Martin Rohrmüller
PDF File	REF-189016-02.pdf	18 09, 2018 by Martin Rohrmüller
PDF File	TC0923--2523_report_Rev_2_qua.pdf	18 09, 2018 by Martin Rohrmüller
PDF File	tc0929--2611_qua(1).pdf	18 09, 2018 by Martin Rohrmüller

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