

Module Connectors

 Board to board connectors are hermaphroditic. Odd pin numbers are connected to even pin numbers on the mating connector and vice versa.

The Trenz Electronic modules use 100-pin REF-189016-02 and 60-pin REF-189017-02 connectors which are compatible with Samtec Razor Beam LSHM type connectors (see table below). When using the same type of connectors on baseboard, mating height will be 8mm. Other mating heights are possible by using connectors with a different height.

Baseboard Connector	Compatible Connector	Number of Pins	Mating height
REF-189016-01	LSHM-150-02.5-L-DV-A-S-K-TR	100 (2 x 50)	6.5 mm
LSHM-150-03.0-L-DV-A-S-K-TR	LSHM-150-03.0-L-DV-A-S-K-TR	100 (2 x 50)	7.0 mm
REF-189016-02	LSHM-150-04.0-L-DV-A-S-K-TR	100 (2 x 50)	8.0 mm
LSHM-150-06.0-L-DV-A-S-K-TR	LSHM-150-06.0-L-DV-A-S-K-TR	100 (2 x 50)	10.0mm
REF-189017-01	LSHM-130-02.5-L-DV-A-S-K-TR	60 (2 x 30)	6.5 mm
LSHM-130-03.0-L-DV-A-S-K-TR	LSHM-130-03.0-L-DV-A-S-K-TR	60 (2 x 30)	7.0 mm
REF-189017-02	LSHM-130-04.0-L-DV-A-S-K-TR	60 (2 x 30)	8.0 mm
LSHM-130-06.0-L-DV-A-S-K-TR	LSHM-130-06.0-L-DV-A-S-K-TR	60 (2 x 30)	10.0mm

Modules can be manufactured using different type of connectors upon request.

The LSHM connector speed rating depends on the stacking height:

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	7.9 GHz / 14 Gbps

Connector Mechanical Ratings

- Shock: 100G, 6 ms Sine
- Vibration: 7.5G random, 3 hours 3 axis

Manufacturer Documentation

File	Modified
PDF File hsc-report_lshm-lshm-05mm_web.pdf	11 01, 2017 by Jan Kumann
PDF File lshm_dv.pdf	11 01, 2017 by Jan Kumann
PDF File LSHM-1XX-XX.X-X-DV-A-X-X-TR-FOOTPRINT(1).pdf	11 01, 2017 by Jan Kumann
PDF File LSHM-1XX-XX.X-XX-DV-A-X-X-TR-MKT.pdf	11 01, 2017 by Jan Kumann
PDF File REF-189016-01.pdf	11 01, 2017 by Jan Kumann
PDF File REF-189016-02.pdf	11 01, 2017 by Jan Kumann

PDF File REF-189017-01.pdf	11 01, 2017 by Jan Kumann
PDF File REF-189017-02.pdf	11 01, 2017 by Jan Kumann
PDF File TC0923--2523_report_Rev_2_qua.pdf	11 01, 2017 by Jan Kumann
PDF File tc0929--2611_qua(1).pdf	11 01, 2017 by Jan Kumann

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