

5.2 x 7.6 UltraSoM+ ADF6 and ADM6 B2B Connectors

5.2 x 7.6 cm UltraSoM+ modules use four Samtec AcceleRate HD High-Density Slim Body Arrays on bottom side.

- 4x ADM6-60-01.5-L-4-2 (240 pins, 60 per row)
 - Mates with ADF6-60-03.5-L-4-2

5.2 x 7.6 cm UltraSoM+ carrier use four Samtec AcceleRate HD High-Density Slim Body Arrays on top side.

- 4x ADF6-60-03.5-L-4-2 (160-pins)
 - Mates with ADM6-60-01.5-L-4-2

Features

- Board-to-Board Connector 240-pins, 60 contacts per row
- 0.025" (0.635 mm) pitch
- Data Rate: max 56 Gbps
- Mates with: ADM6/APF6
- Insulator Material: LCP, Black
- Contact Material: Copper Alloy
- Plating: Au or Sn over 50 μ" (1.27 μm) N
- Operating Temperature Range: -55 °C to +125 °C
- PCIe 5.0 capable: Yes
- Lead-Free Solderable: Yes
- RoHS Compliant: Yes

Connector Stacking height

When using the standard type on baseboard and module, the mating height is 5 mm.

Other mating heights are possible by using connectors with a different height:

Order number	REF number	Samtec Number	Type	Contribution to stacking height	Comment
30095	REF-30095	ADM6-60-01.5-L-4-2	Module connector	1.5 mm	Standard connector used on modules
31137	REF-31137	ADF6-60-03.5-L-4-2	Baseboard connector	3.5 mm	Standard connector used on carrier

Connectors.

Connector Speed Ratings

The AcceleRate HD High-Density connector speed rating depends on the stacking height; please see the following table:

Stacking height	Speed rating
5 mm	56 Gbps

Speed rating.

Current Rating

Current rating of Samtec AcceleRate HD High-Density B2B connectors is 1.34 A per pin (4 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 20200225_hsc_adm6-xx-01p5-xxx-4-a_adf6-xx-03p5-xxx-4-a.pdf	10 01, 2022 by Martin Rohrmüller
PDF File adf6.pdf	10 01, 2022 by Martin Rohrmüller
PDF File ADF6-XXX-XX.X-XXX-X-X-X-FOOTPRINT.PDF	10 01, 2022 by Martin Rohrmüller
PDF File adf6-xxx-xx.x-xxx-x-x-x-xr-mkt.pdf	10 01, 2022 by Martin Rohrmüller
PDF File adx6 mated document.pdf	10 01, 2022 by Martin Rohrmüller

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