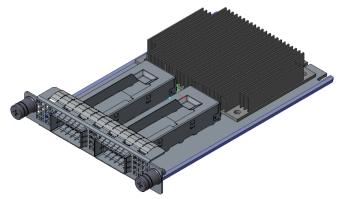
Mechanical Discussion OCP Overview

9/25/2017

Joshua Held, Mechanical Engineer, Facebook
Yueming Li, Thermal Engineer, Facebook
John Fernandes, Thermal Engineer, Facebook
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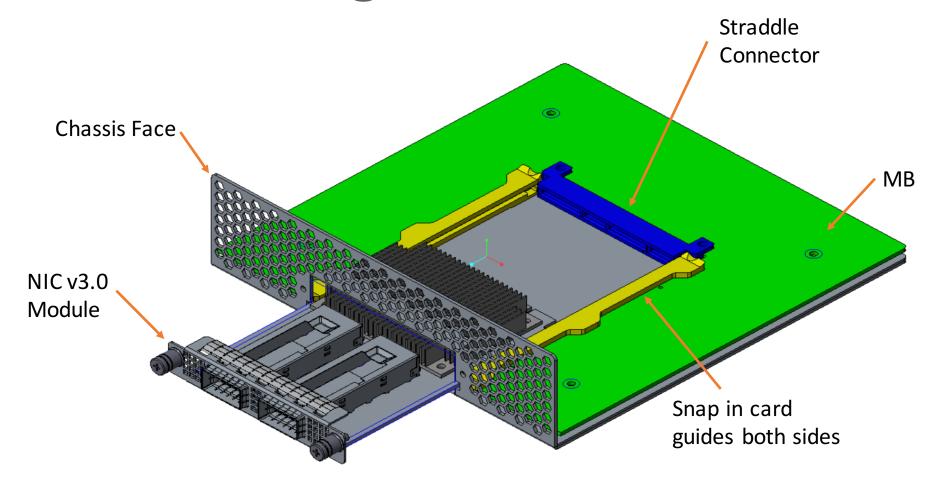
Mezz v2.0 vs NIC v3.0





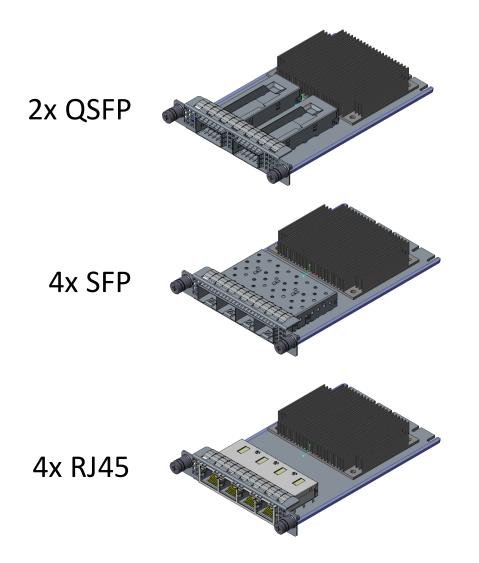
	Mezz v2.0	NIC v3.0	
Small Size	Non-Rectangle	74x115	
Small Area	8000	8510	
Large Size	NA	118x115	
Large Area	NA	13570	
Expansion Direction	NA	Side	
Connector style	Mezz	Edge (.6mm pitch)	
PCB Orientations	Horizontal	Horizontal	
Installation	In Chassis	Front/Rear Panel	
Installation Parallel to Front/Rear Panel Action		Perpendicular to Front/Rear Panel	
Hot Swap	No	Yes	
EMI Containment for Serviceability	High Difficulty	Low Difficulty	

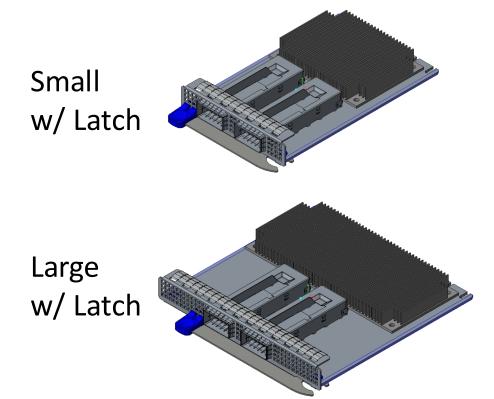
NIC v3.0 Configuration



Small NIC with Straddle Mount

Module Versions





	Connector 1	Connector 2	Mating Force	Unmating Force
Small Size	4C + OCP Bay	NA	64N (6.5kg) (14lbs)	20N (2kg) (4.5lbs)
Large Size	4C + OCP Bay	2C	96N (9.8kg) (21.6lbs)	30N (3kg) (6.7lbs)

Next Steps

- Community mechanical questionnaire please provide detailed feedback
- > Close on Keep outs, board size, stack up heights, EMI shielding, connector options
- Considering ¼ turn fastener in place of thumb screws

Special Thanks

Quanta Computer – for providing mechanical mock-ups

Facebook Team:

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