OPEN POSSIBILITIES.

OCP NIC: What's now and the future

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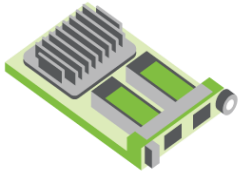
NOVEMBER 9-10, 2021



SERVER

NIC3.0

OCP NIC: What's now and the future

Damien Chong, OCP NIC sub-group lead

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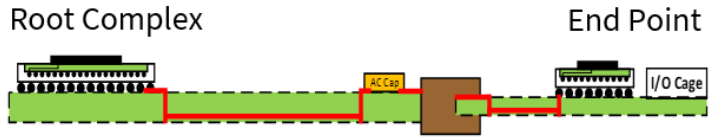
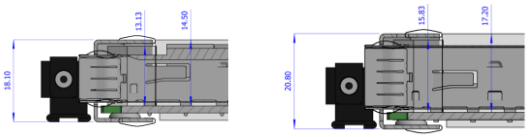
A year in review

OCP TECH WEEK
A VIRTUAL EVENT
November 9–10 & 12–13, 2020 (PST)
CONNECT.
COLLABORATE.
ACCELERATE.

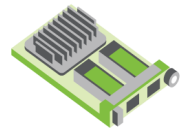




November 2020: OCP Tech Week

October 2020: OCP NIC alignment on PCIe Gen5 loss budget

October 2020: Start new form factor investigation with 3 candidates (17.8mm, 18.1mm & 20.1mm)



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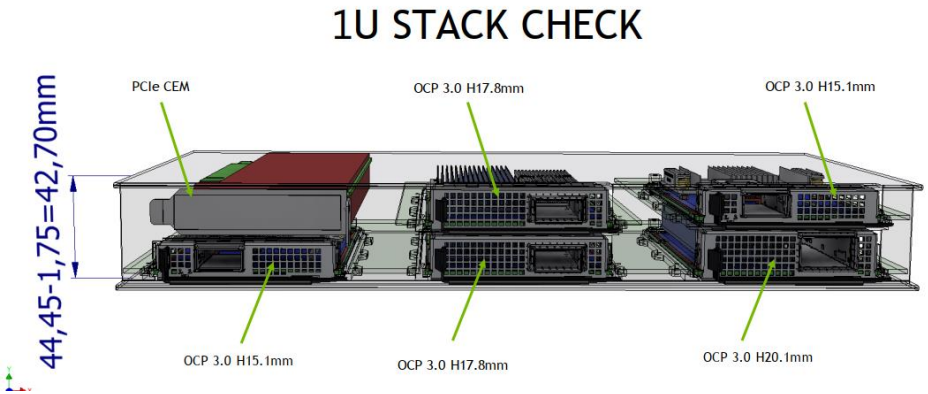
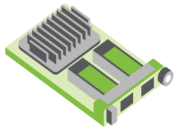
A year in review



November 2020: Narrow down to two new form factor (17.8mm) & ETSFF (20.1mm)

November, 2020: OCP NIC 3.0 rev 1.1 specification released



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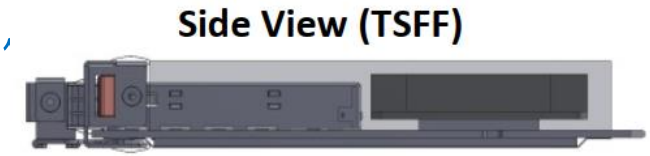
A year in review

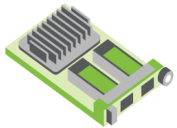


March 2021: Narrow down to one TSFF 17.8mm

March 2021: 1st mechanical fit test fixture

March 2021: Community survey

April 2021: Community alignment to pursue TSFF



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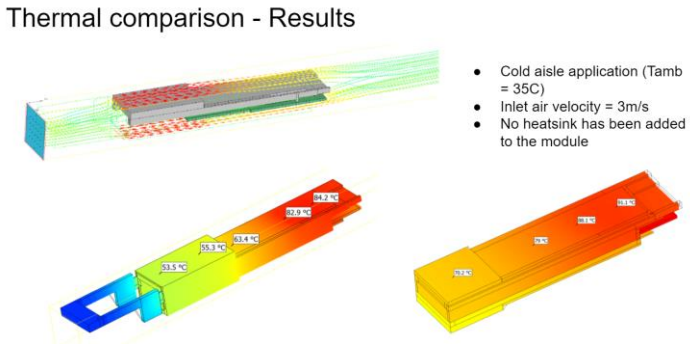
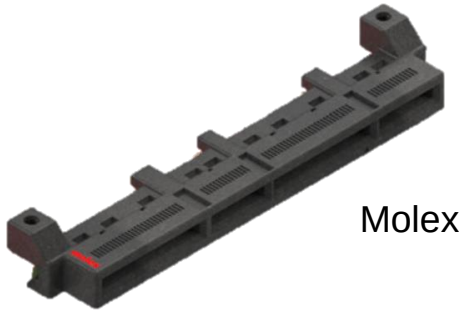
A year in review

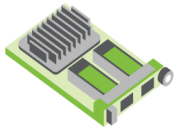




Molex

May 2021: Thermal workgroup rejuvenate

June, 2021: Molex joined as Contributor



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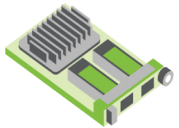
A year in review

Rev1.2

July, 2021: 2nd mechanical fit test fixture

July, 2021: OCP NIC 3.0 rev 1.1.1 release candidate

Sept, 2021: OCP NIC 3.0 rev 1.2 specification released



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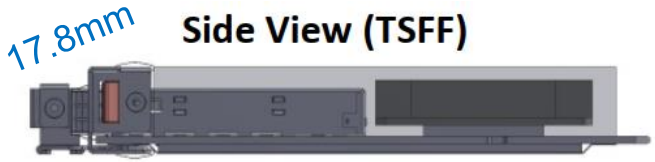
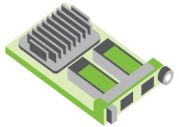
Beyond NIC initiative



- Utilizing OCP NIC 3.0 form factor in non-NIC use-case
- Some connector such as miniSAS-HD popular in retimer, unable to fit SFF 15.1mm height constraints. Roadblock ungated with TSFF 17.8mm definition
- OCP NIC form factor suitable for high bandwidth, high density and/or external cable application



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What's next?

Speed

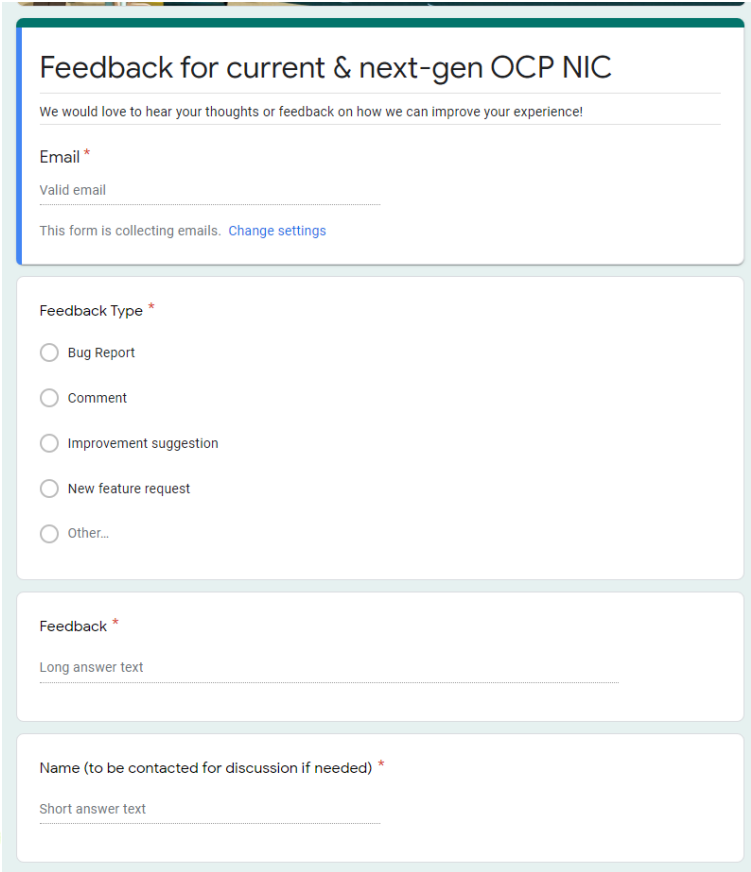
- PCIe host interface
- Out-of-band interface
- Network serdes interface

Management

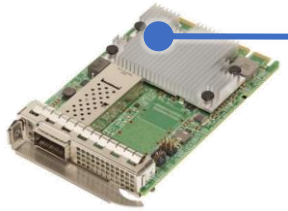
- Self protection
- Security

Gather feedback throughout the year

Provide your feedback at:
https://tinyurl.com/feedback2ocpnic



OCP Experience Lab Demo



Multi-Host Connectivity and Manageability	Broadcom
Device Attestation Using SPDM	Broadcom & Meta
Zion-Ex Platform: with 12x NIC slots	Meta
Mechanical Fit **Test Fixture**	NIC Sub-Group
Fibre Channel **HBA**	NIC Sub-Group
400GbE NIC in **Tall-SFF**	NVIDIA
Interface Sandbox with SFF Slots	TE Connectivity
ODSA ODA board with **OCP NIC**	ODSA & NIC Sub-Group

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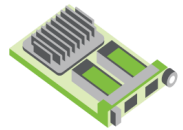
Call to Action

- Join OCP NIC sub-group monthly call 1st Wednesday of the month
- Join us in the journey to define OCP NIC specification
- Provide us any feedback thru feedback form at https://tinyurl.com/feedback2ocpnic

Project Wiki with latest specification : https://www.opencompute.org/wiki/Server/Working

Project meeting schedule: http://opencompute.org/projects/projects-calendar/

Mailing list sign-up : https://ocp-all.groups.io/g/OCP-NIC



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Thank you!

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