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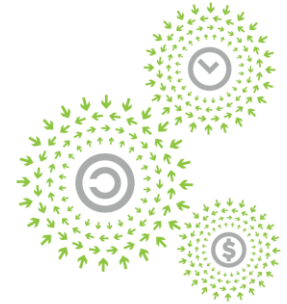


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Server

Small JBOG solution

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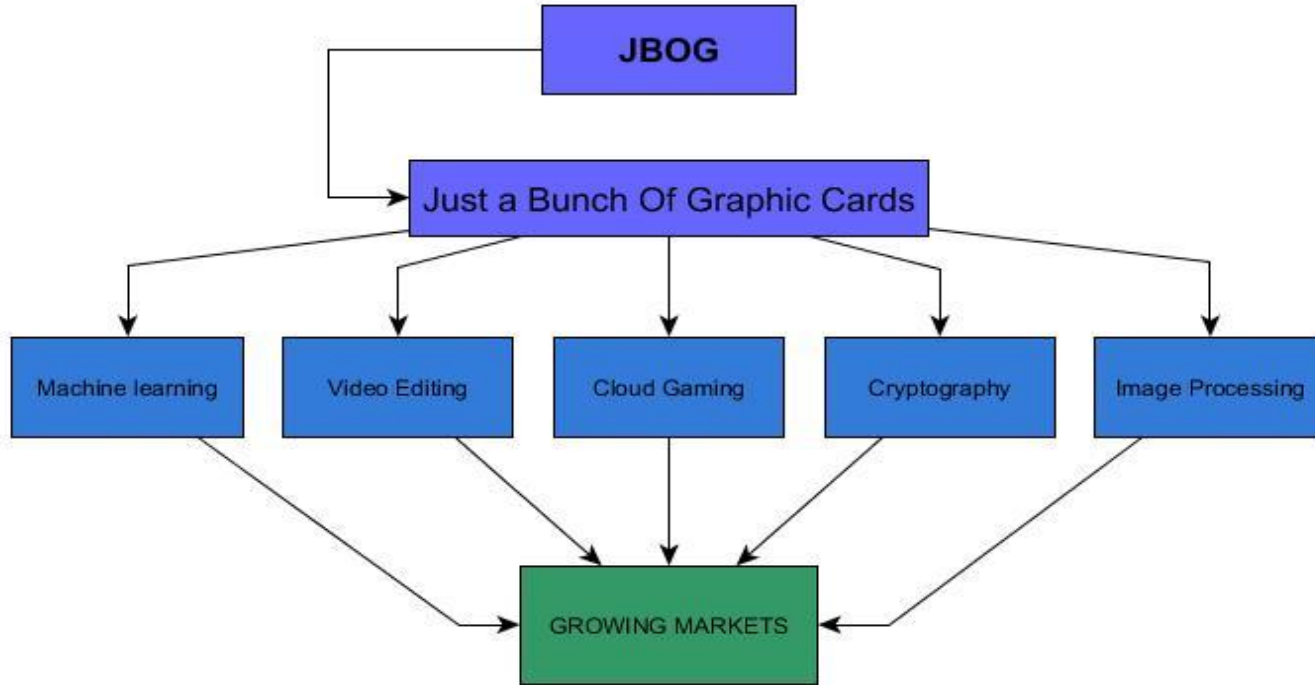
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Introduction



SERVER



OCP solutions



Big Basin

- 8 Nvidia Tesla P100 GPU
- Connected to server head node



Big Sur

- 8 K80/M40 series GPU
- Intel Xeon E5-2600

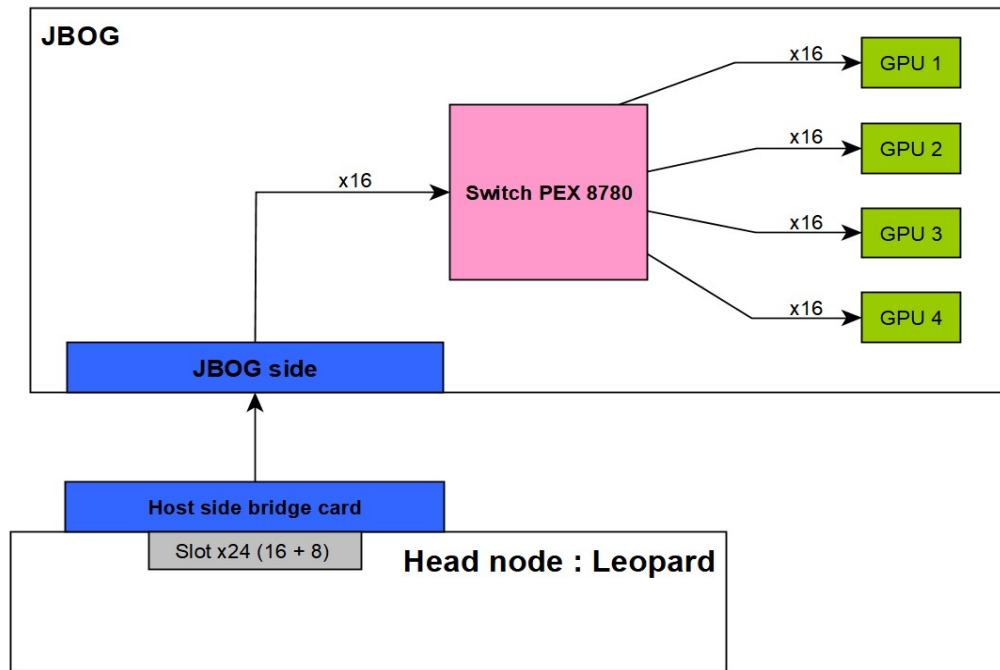


Overview of the project

Item	Description/Major components
Baseboard	1 PCIe switch 4 x16 PCIe Gen3 slots BMC Power connector from rack bus bar 4 mini SAS HD connector BMC network port Debug support LEDs USB connector
Host side bridge card	4 mini SAS HD connector X16 PCIe Gen3 retimer
Fans	TBD
Power supply	Should be compatible with Discovery chassis and Open Rack V2
Chassis	TBD



Electrical specification



Electrical specification

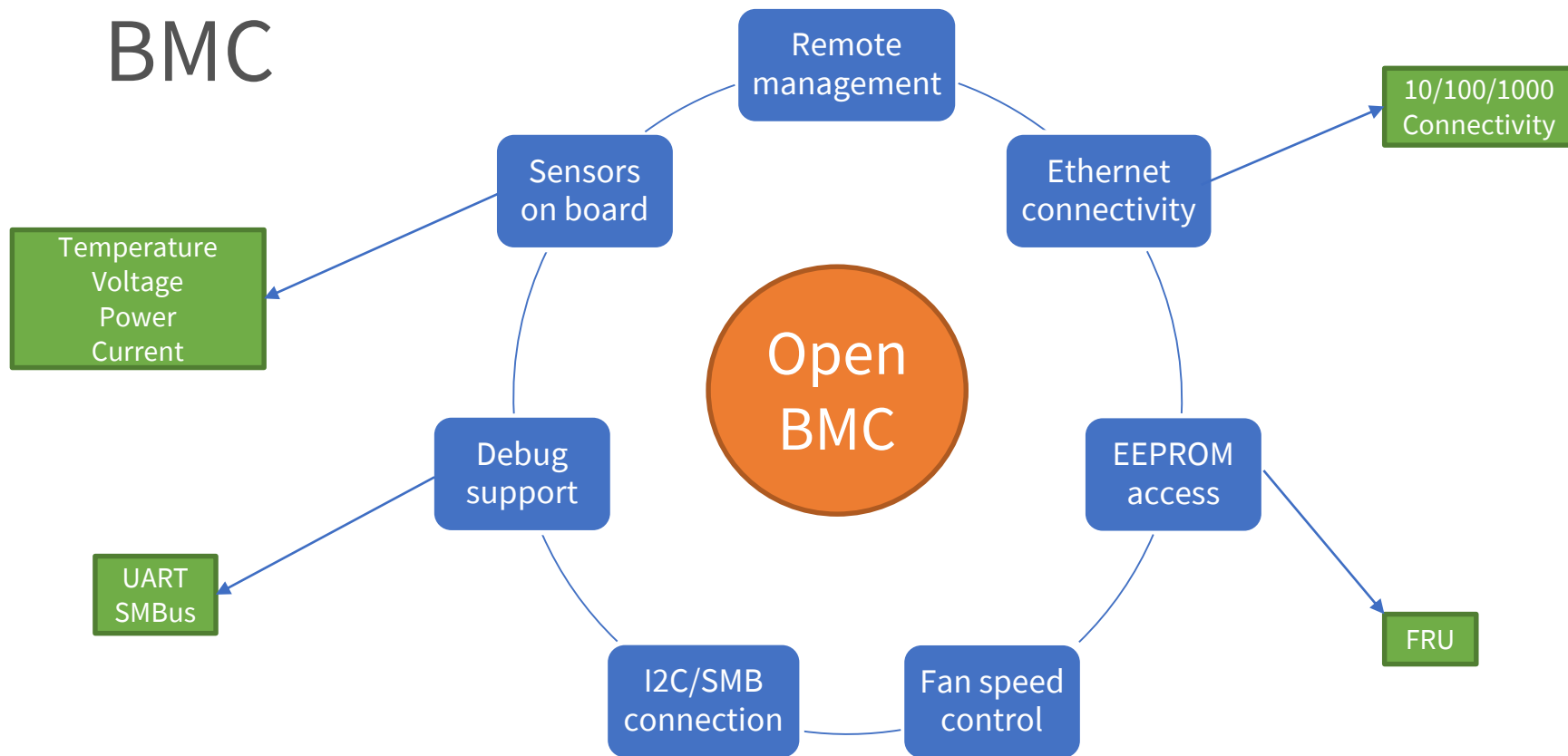
- Hot plug at JBOG level and endpoint level
- On board reset system
- Remote management via BMC
- 1x RJ45 connector
- 1x USB connector



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BMC



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Power specification

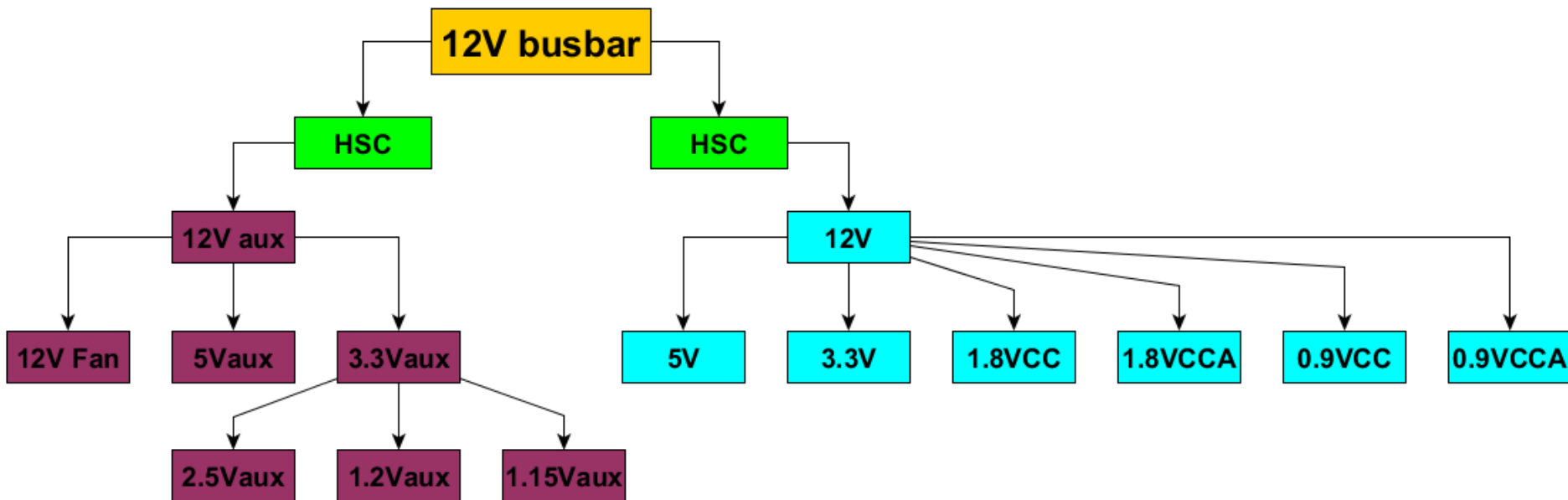
Power delivered is 12V		Compliant ORV2 and Discovery
4x GPU around max 300W		1500W max for the board
OVP, OCP and UVP		Fully protected
Hot Swap Controller		Work continuously



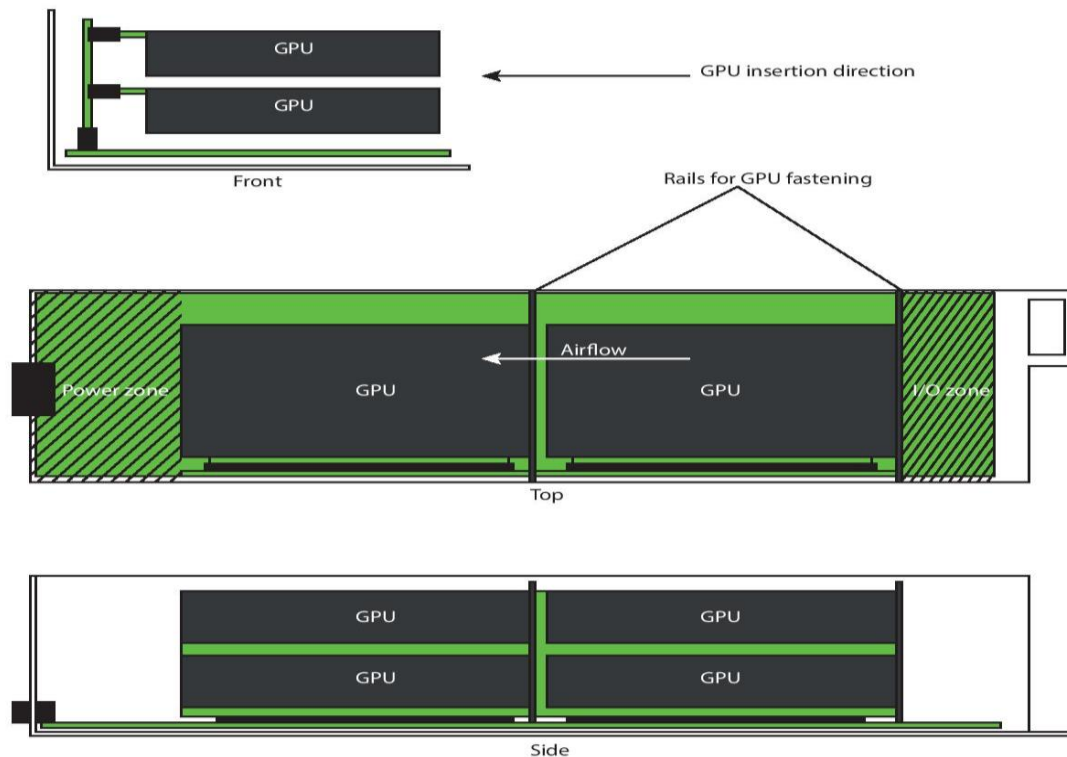
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Power specification



Mechanical specification



Mechanical specification

Compatible with :

- ORV 2 → special chassis needed
- Sesame Fast-Start → JBOG plugged directly



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Product/Facility Info

Sesame
Fast-Start



ORV 2



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Compute Project
SOLUTION PROVIDER®

ITRenew Marketplace: <https://www.itrenew.com/sesame-solutions>



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Call to Action

- Any ideas are welcome !
- First prototype by Q3 2020
- <https://github.com/SesameEngineering>



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Thank you for your attention !



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