



Facebook Server Intel Motherboard 3.0

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Facebook

Compute Server Design



Agenda

1 Overview – Compare with Intel Motherboard 2.0

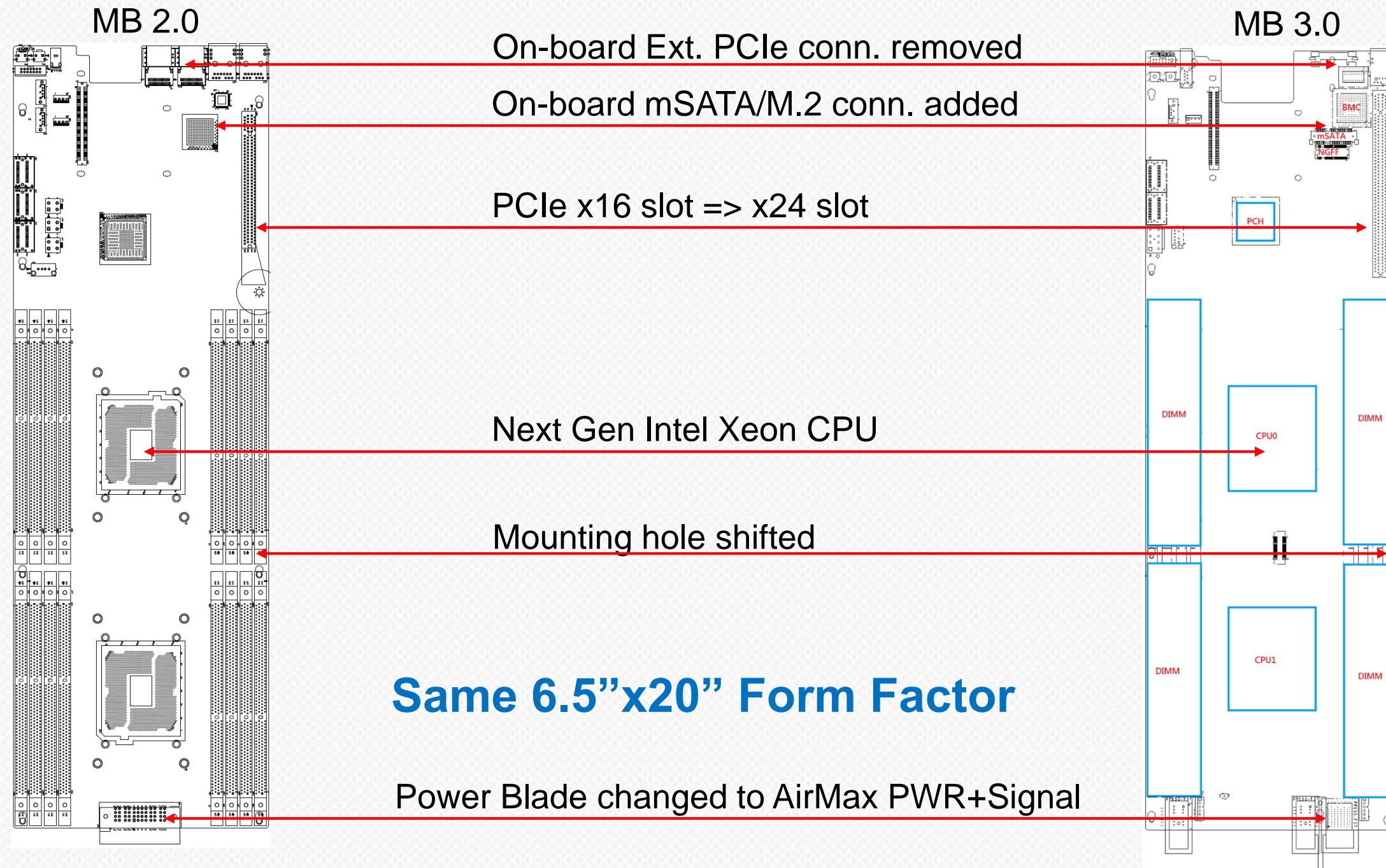
2 New Features

3 Q & A

4



Overview: Compare with MB 2.0

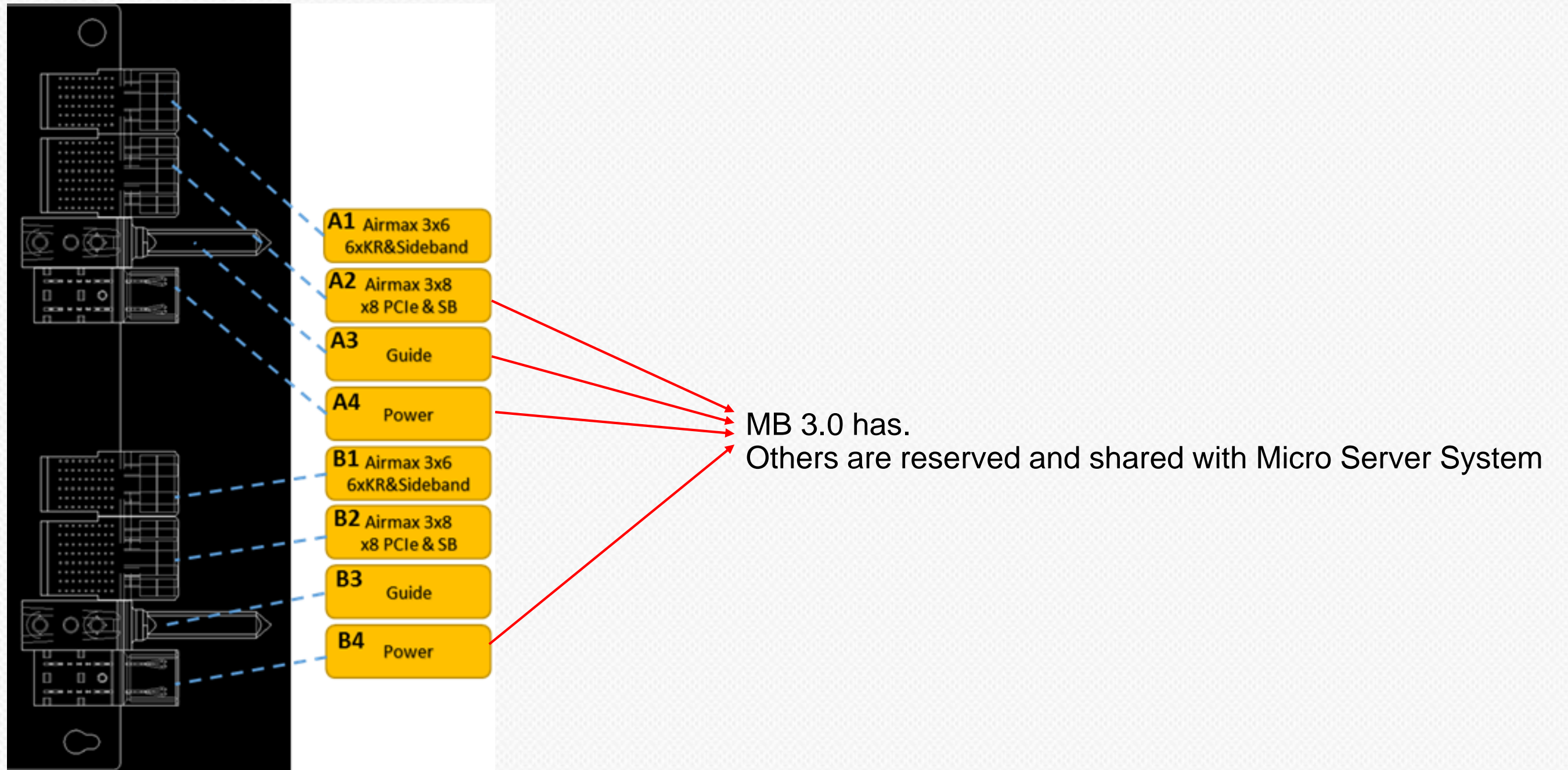


New Feature: BMC

- **Aspeed AST1250**
 - **Out-of-Band connection**
 - I2C to 10G Mezzanine, to use current OCP 10G Mezzanine
 - RMII to 10G Mezzanine, to support NC-SI Sideband
 - RMII option to I210 LOM, to both front RJ45 and rear AirMax
 - **Dual BIOS images**
 - Select primary and backup BIOS image for boot
 - Update BIOS image through OOB
 - **Serial-over-LAN**
 - Support UART selection from Host, BMC and Mid-plane



New Feature: New Rear Airmax Conn



New Feature: mSATA/M.2

- **Co-layout on board mSATA/M.2 connector**
 - mSATA
 - M.2
 - Connector Key ID= M and H4.2 type, for 2242 and 2260 form factor
 - PCIe x4 and SATA connected
- **Adaptor for M.2**
 - Adaptor direct plug into USB+SATA
 - No cable, direct plug. Power from USB, Signal from SATA port
 - Support all M.2 form factor



New Feature: Others

- TPM connector to support TPM module
 - LPC Interface
- Up to 3x PCIe (x8) slots through riser
 - 2x PCIe + 3.5" HDD
 - Same as MB 2.0 system
 - Same mechanical tooling
 - 3x PCIe + mSATA/M.2



Q & A



