**Q3, 2020**

Lili Wu

Safe Harbor Notice

➤ ASPEED's statements of its current expectations are forward-looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.

➤ Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.

ASPEED in Brief

- Established in Nov. 15th , 2004

- Paid-In Capital: NTD 341M (USD 10.99M)

- Number of Employees: 90

- Location:

  – ASPEED Technology Inc.: Hsinchu City, Taiwan

 – ASPEED Technology (U.S.A) Inc.: San Jose, USA

About ASPEED Technology

Establishment — **Growth** — **Expansion**

2004.11	2005.10	2006.09	2015.10	2018.05
Incorporated	Announced 1st BMC/VGA-2D/KVMoIP SoC	Achieved Financial Breakeven in the 8th Quarters	BMC Market Share WW No. 1	Announced World First 6-Cam Spherical Vision SoC

2005.01 — Strategic Alliance with Quanta Computer

2006.01 — Adopted by Sun Micro

2012.05 — Listed on Taipei Exchange (TPEX)

2017.01 — Fully integrated Broadcom Emulex Pilot™ Business

Future Development

Product Fields	Descriptions
Server Management	• Platform & launch schedule Alignments • Continue to work closely with software company • Engage customers early in the new server development • Adopt more advanced process in order to provide better features, lower power consumption, and lower cost SoC solution
PC & AV Extension	• Actively expand new market, new customer and new application • Adopt more advanced process in order to provide better features, lower power consumption, and lower cost SoC solution
Cupola360 Image Processor	• Focus on Video Conference solution • Adopt more advanced process in order to provide better features, lower power consumption, and lower cost SoC solution

Product Lineup

AST1010
AST2200 / AST2150
AST2300 / AST1300 / AST1050
AST2400 / AST1400 / AST1250
AST2500 /AST2510 / AST2520 / AST2530
AST2600/Pilot5

28nm LP Process
Dual Core 1GHz CPU
DDR4 SDRAM
Robust Security Architect
and Features
A0: July/2019
A1: Feb/2020

Server Management
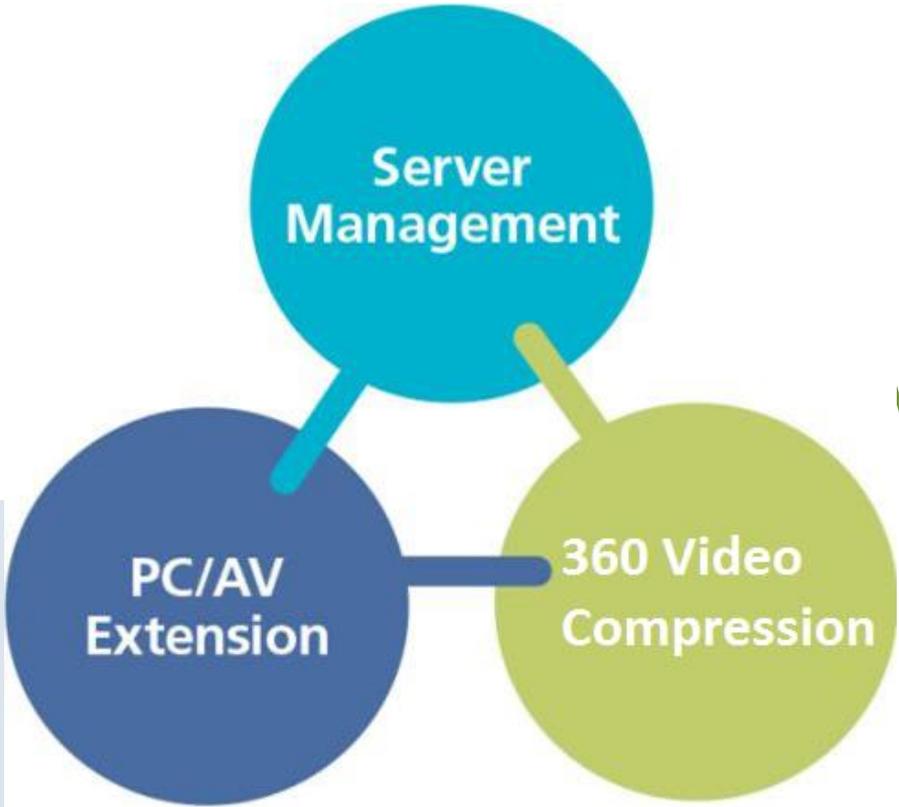
AST1500 / AST1510
AST1520 / AST1525
AST1620/AST1625

130nm LP Process
Support 4Kx2K Resolution
<80 us latency
1GHz CPU
DDR4 SDRAM
ES: 2017/Q2
PS: 2017/Q3

PC/AV Extension

360 Video Compression

AST1220

40nm LP Process
1GHz CPU
PLDDR3 SDRAM
6-Cam Real Time Stitching
H.264/265 4k2k Endoding
PCIe Gen-II
ES: Aug. 2018
PS: Nov. 2018

Product Portfolio

Server Management SoC Solutions

PC/AV Extension SoC Solutions

**360 Spherical Image Processor SoC**

Remote Server Management

AST2600 Schedule

FIRST IN MARKET!!
AST2600 is World first 28nm BMC chip for next generation X86 servers!
ASPEED launched AST2600 almost a year before our competitor.

AST2600 AO sample out

Sample for all ODMs

MP Ready

July

Nov.

| 2019 | 2020 | 2021 |

Aug.

Feb. 2020

New server platform

Early sample

A1 Sample for all customers
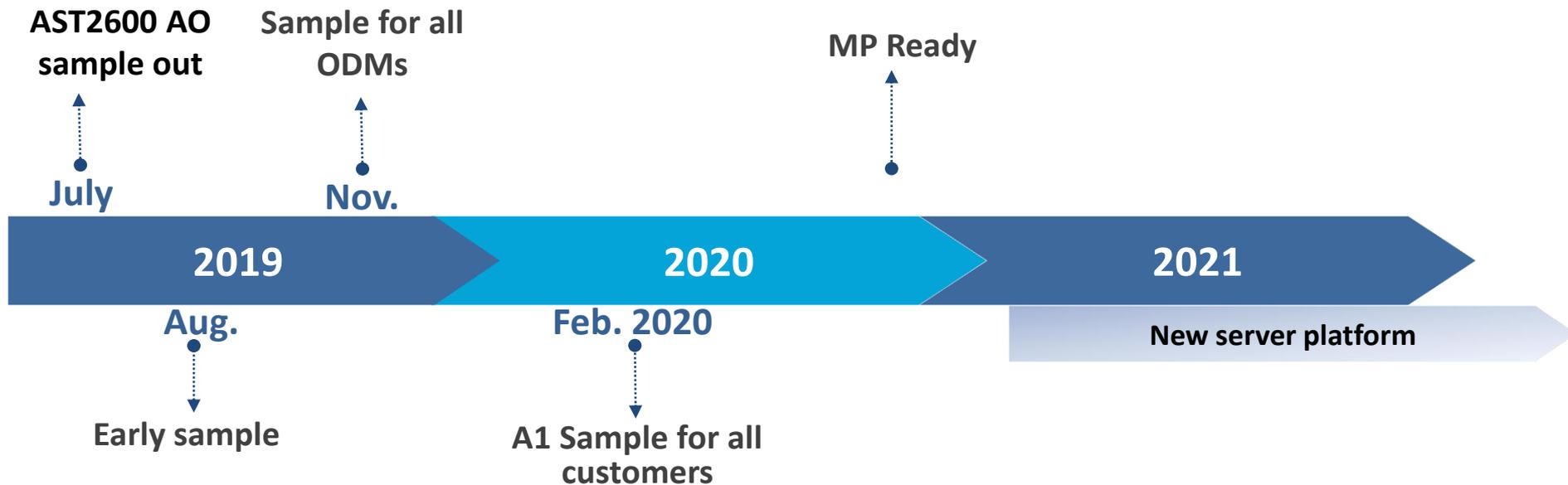
Server Trend- Mix of Cloud and Edge

Future will be mix of cloud and edge computing.
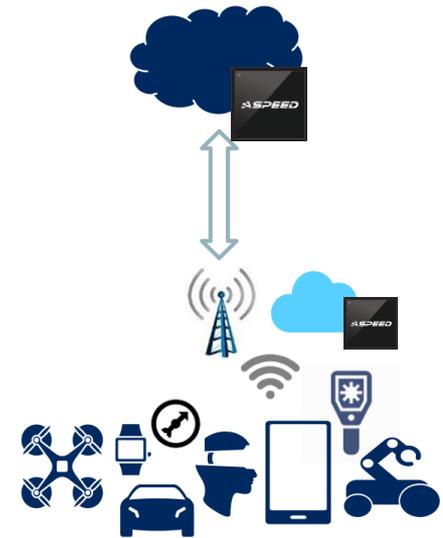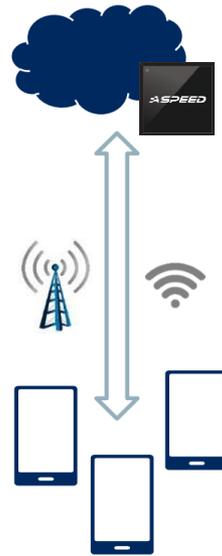
1980-2005	2005-2020	2020+
Personal computing and on-premise workstations	**Cloud computing**	**Cloud and intelligent edge computing**

Product Portfolio

Server Management SoC Solutions

PC/AV Extension SoC Solutions

360 Spherical Image Processor SoC

A/V over IP Roadmap
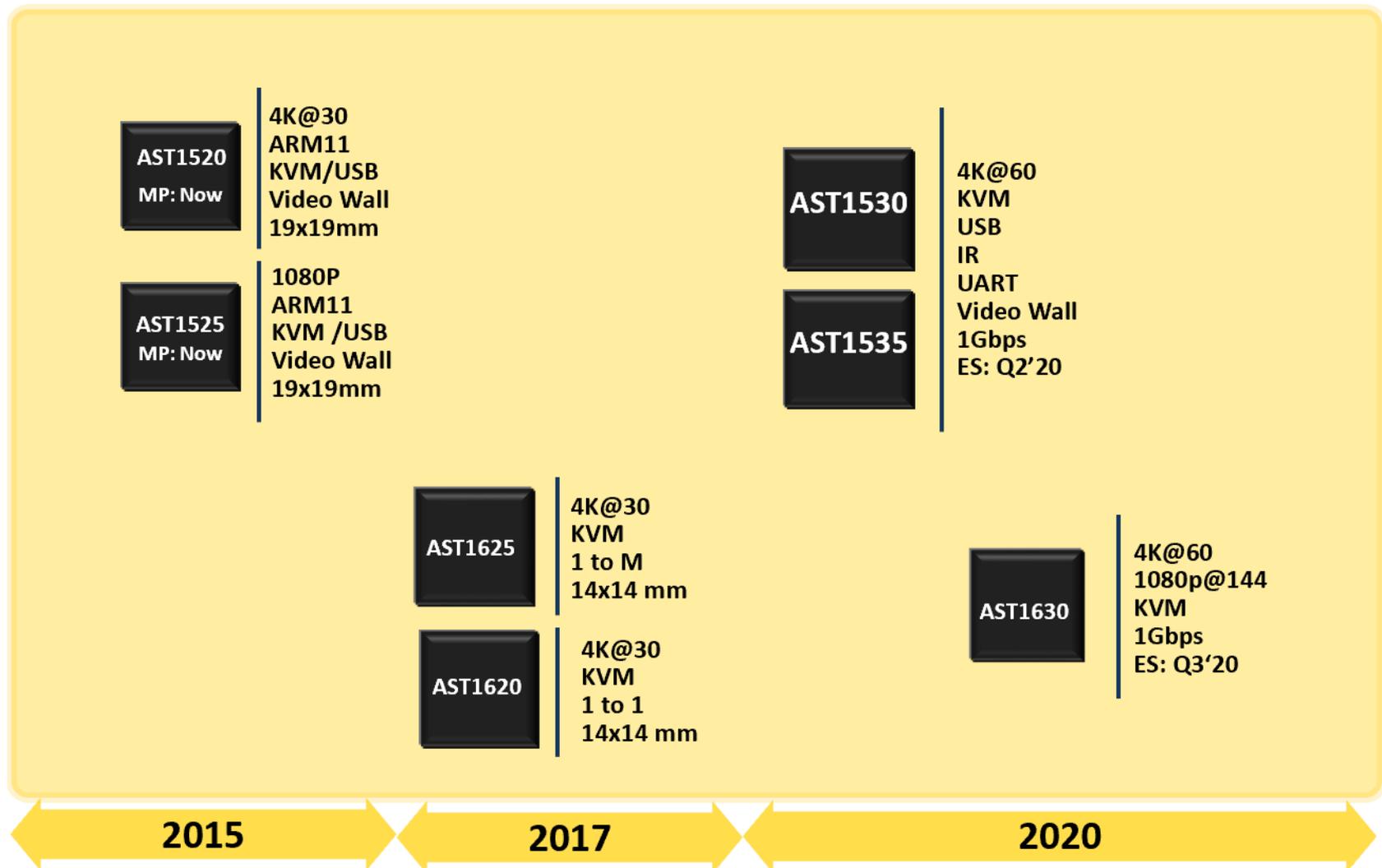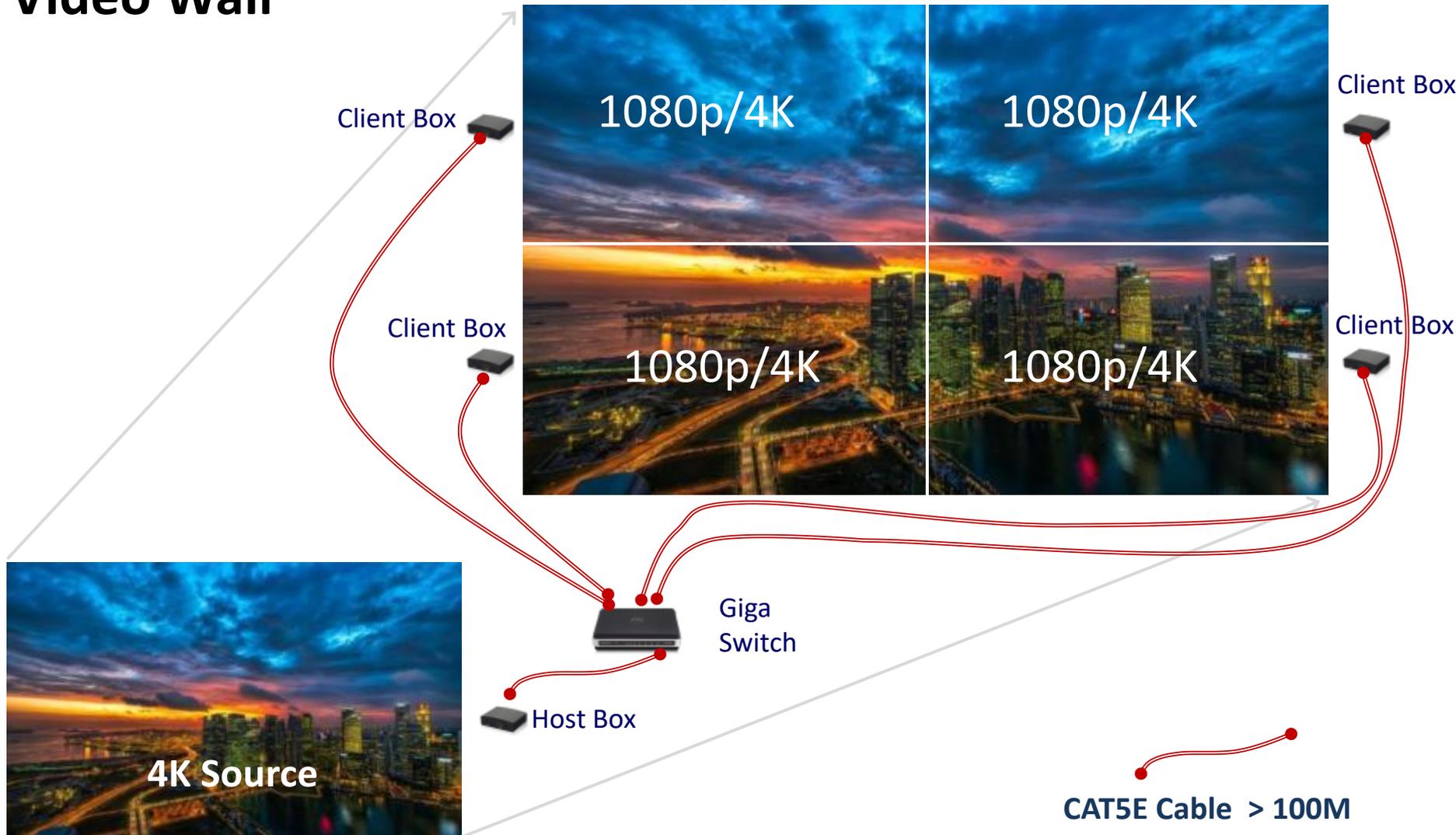
AST1520
MP: Now

4K@30
ARM11
KVM/USB
Video Wall
19x19mm

AST1525
MP: Now

1080P
ARM11
KVM /USB
Video Wall
19x19mm

AST1530

4K@60
KVM
USB
IR
UART
Video Wall
1Gbps
ES: Q2'20

AST1535

AST1625

4K@30
KVM
1 to M
14x14 mm

AST1620

4K@30
KVM
1 to 1
14x14 mm

AST1630

4K@60
1080p@144
KVM
1Gbps
ES: Q3'20

| 2015 | 2017 | 2020 |

Product Portfolio

Server Management SoC Solutions

PC/AV Extension SoC Solutions

360 Spherical Image Processor SoC

4 Cam 360 for Conference

Single fisheye lens
- Ineffective pixels in ROI

4 Wide-angle lenses
- Effective pixels in ROI

Platform	ASPEED AST1220
Field of View	360º (H) x 60º (V)
Video	1920x1080@30fps (16:9) 3840x640@30fps(6:1) 7200x1200@20fps(6:1)
Video format via UVC	MJPG H.264/265(developing)
Audio	Microphone, Speaker (Two-way Audio)

- Ready for Integrate with external AI system to crop avatars of attendees.
  - Beamforming
  - Face detection/recognition
  - People Tracking

Thank you

Q&A

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