

ADVANTECH

DS-200

4K SDM-L Signage Player



D. Signage & Display
Embedded Computing Group, Advantech
Clemen Huang
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The Most Powerful SDM Signage Player



*Real-time Content Delivery
Supports 30+ Media Contents
Supports 500+ Player/Clients*

Ultra Slim DS-0 Series

- 19mm thin design
- 4K UHD available

Cost Effective DS-1 / 3 Series

- RISC / X86 options
- Windows/Linux/Android

SDM / OPS DS-2 Series

- Slot-in design
- 4K UHD available

Graphic Enhanced DS-5 Series

- Discrete on-board GPU
- 4K UHD playback

Multi-Display DS-7 / 8 / 9 Series

- PCIe x16 expansion
- Up to 4+3 displays

WebAccess/IMM

WISE-PaaS/RMM



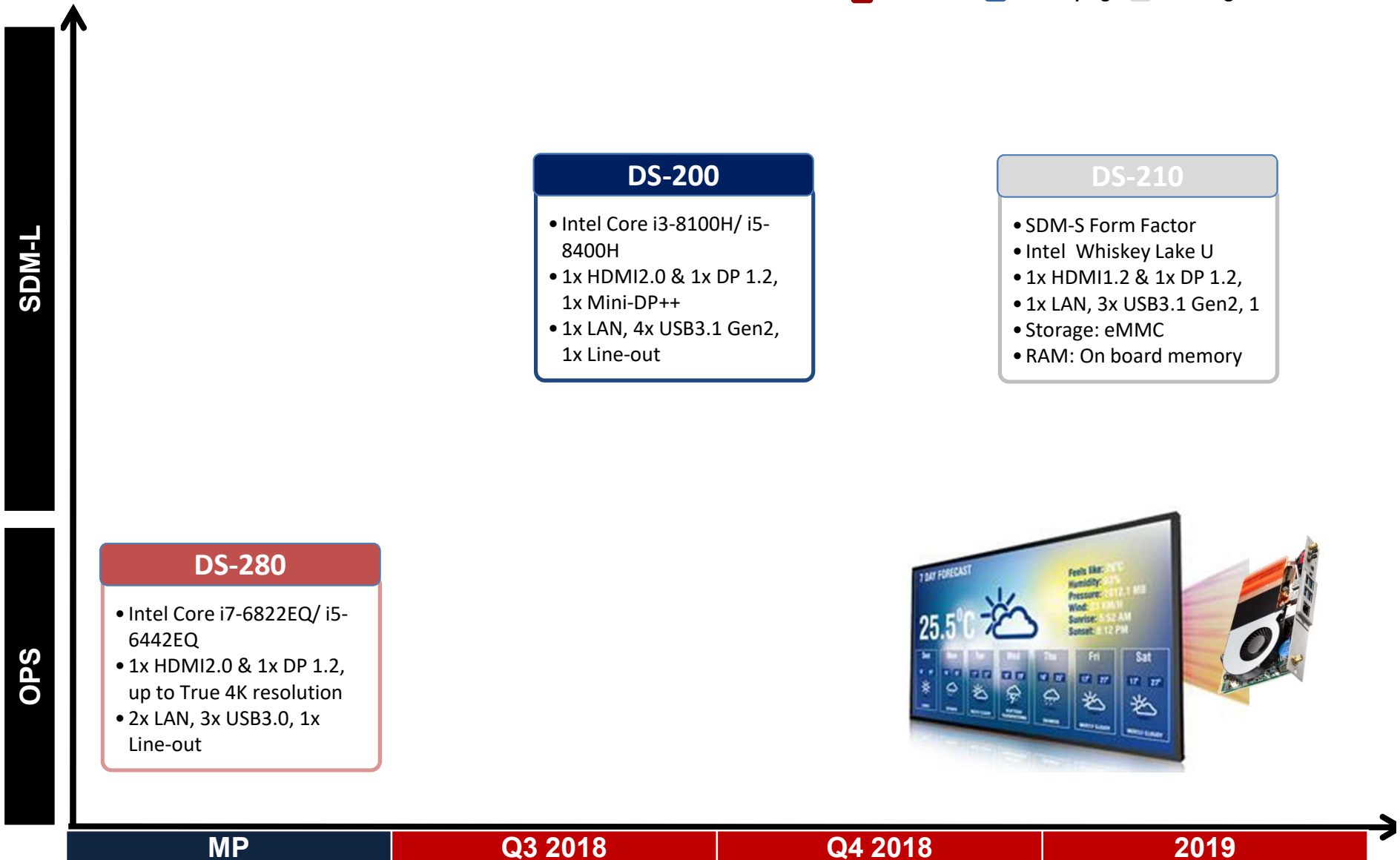
Acronis

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OPS Series Roadmap

■ Available
 ■ Developing
 ■ Planning



DS-280

- Intel Core i7-6822EQ/ i5-6442EQ
- 1x HDMI2.0 & 1x DP 1.2, up to True 4K resolution
- 2x LAN, 3x USB3.0, 1x Line-out

DS-200

- Intel Core i3-8100H/ i5-8400H
- 1x HDMI2.0 & 1x DP 1.2, 1x Mini-DP++
- 1x LAN, 4x USB3.1 Gen2, 1x Line-out

DS-210

- SDM-S Form Factor
- Intel Whiskey Lake U
- 1x HDMI1.2 & 1x DP 1.2,
- 1x LAN, 3x USB3.1 Gen2, 1
- Storage: eMMC
- RAM: On board memory



Key Visual IoT Applications

Digital Signage & Menu Board



Interactive White Board



Video Wall for Large Display



Interactive Kiosk & Virtual Banking Kiosks



Wayfinding Kiosks



Vending Dispensing Machines



Public kiosks for Smart cities



Virtual Data Device



Intelligent News Stands



Smart Mirrors and Lockers



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Architecture of Visual IoT Solution

Target Applications

Interactive KIOSK



Electronic Whiteboard



Outdoor Signage



SDM In the Edge

Display + Vision

WISE-PaaS/SignageCMS

Content Edit

Scheduling

WISE-PaaS/EdgeSense

Device Monitor

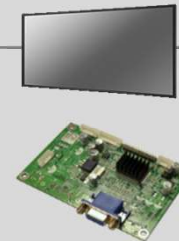
Data Security

DS-200



- Intel SDM-L compliant.
- 8th Intel Core™ i7-8850H, i5-8400H
- 4K Display Output
- LAN/Wifi connectivity

DSD-3042



- 42" Digital Signage Monitor
- PCAP Touch Sensor
- AD Board Integrated

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Pluggable Design for Visual IoT

Intel® Smart Display Module (Intel® SDM)



All-in-One Commercial Display for Digital Signage

Intel SDM addresses all-in-one visual applications and displays with space constraints –includes a future proof interface connector



Application focused

Optimized for digital signage, public kiosks, projections for magic mirrors, and more



Flexible Integration

Can be built in or externally plugged into a display for maximum integration flexibility



Scalable

Future-proofed card edge connector supports generations of Intel processors

DS-200 Selling Points

Built with 8th Generation Intel® Core™ i3/i5

- ✓ Enhanced performance over previous generation with up to 6 Cores
- ✓ 3 independent 4K Ultra HD displays
- ✓ USB 3.1 Gen2 (10 Gbps)



Slim and Compact Design

- ✓ 20mm thickness compare to 30mm of OPS
- ✓ M.2 2242 for storage, M.2 2230 for WiFi & BT module

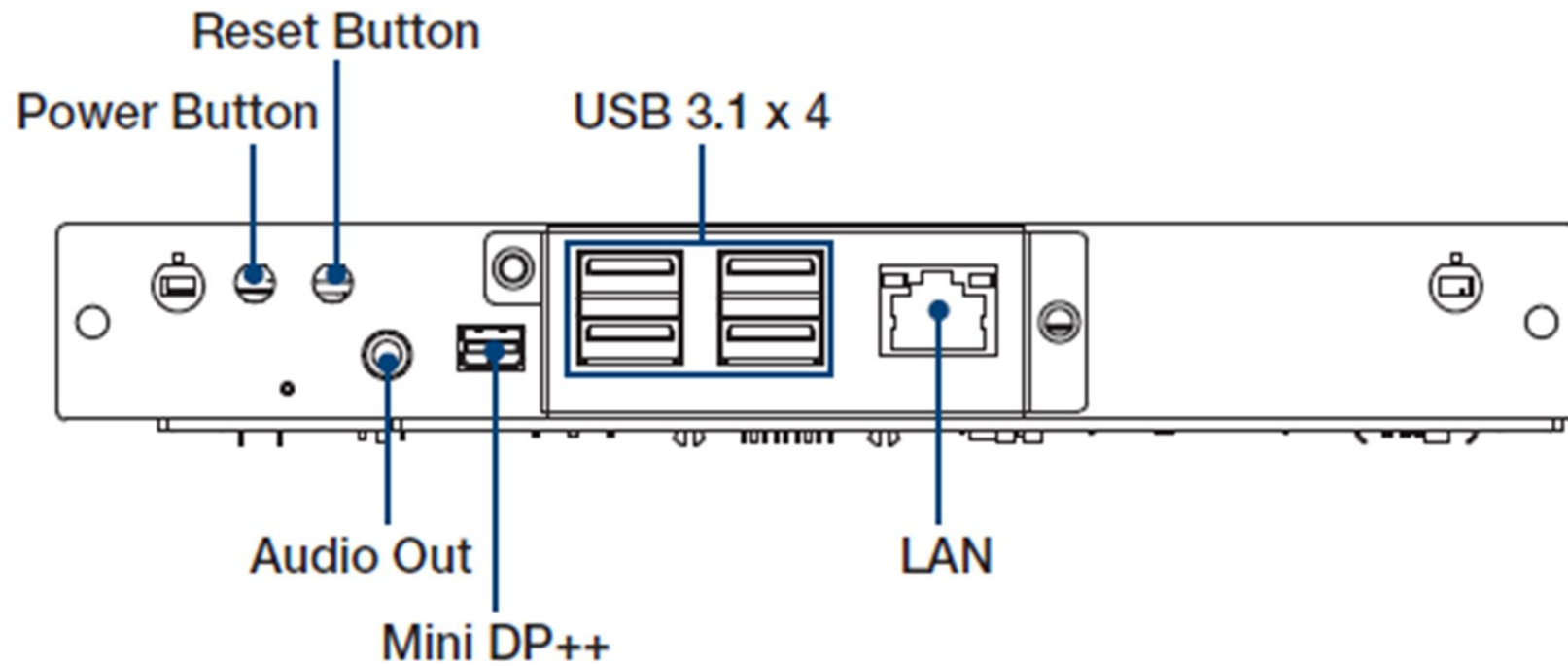
Better thermal performance

- ✓ Operating temperature: 0~55 °C
- ✓ Certification ready



WISE-PaaS/RMM WebAccess/IMM McAfee Acronis

DS-200 IO Placement



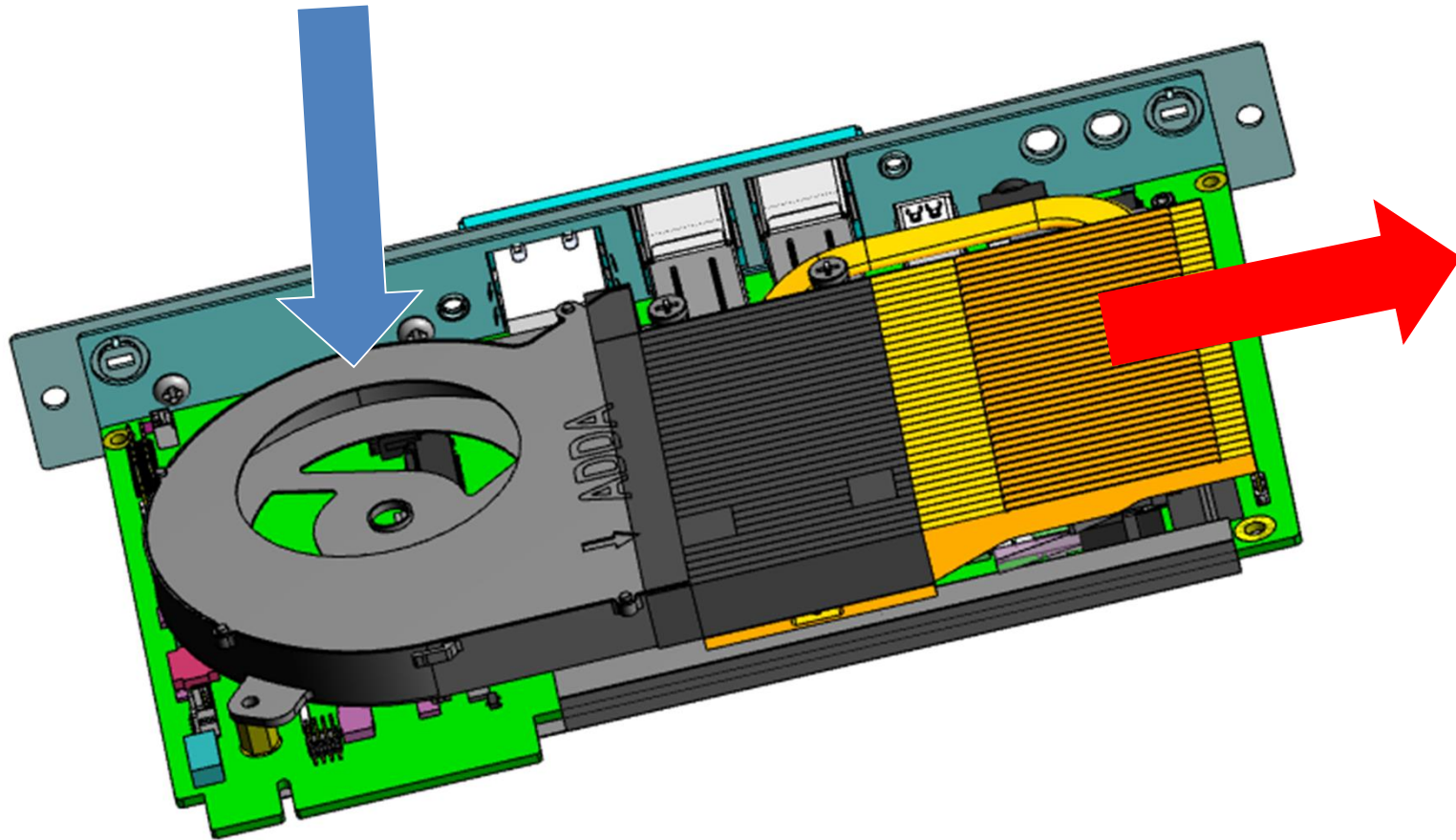
DS-200 Product Spec

Form Factor	SDM-L
CPU	Intel Coffee Lake H series, 45W, Celeron G4930E, i3 8100H, i5 8400H
GPU	Integrated Intel UHD Graphics 630
PCH	Intel QM370
Memory	DDR4 2400/2666, SODIMM x2, (max: 16GB x2)
Storage	M.2 2242 M Key,
Display	HDMI 2.0, DP1.2, mini-DP++
Audio	SPDIF Line out / Mic-In
USB	USB 3.1 Gen2 x 5 (Type A x4, Golden Finger x1)
LAN	RJ45 x1
Wi-Fi	M.2 2230 E Key
Serial Port	RS-232, via Golden Finger
Switch	Power Switch, Reset Button
Thermal Solution	Active Blower
Operating Temp.	0~55 °C
Dimensions	SDM-L: 175 x 100 x 20 mm

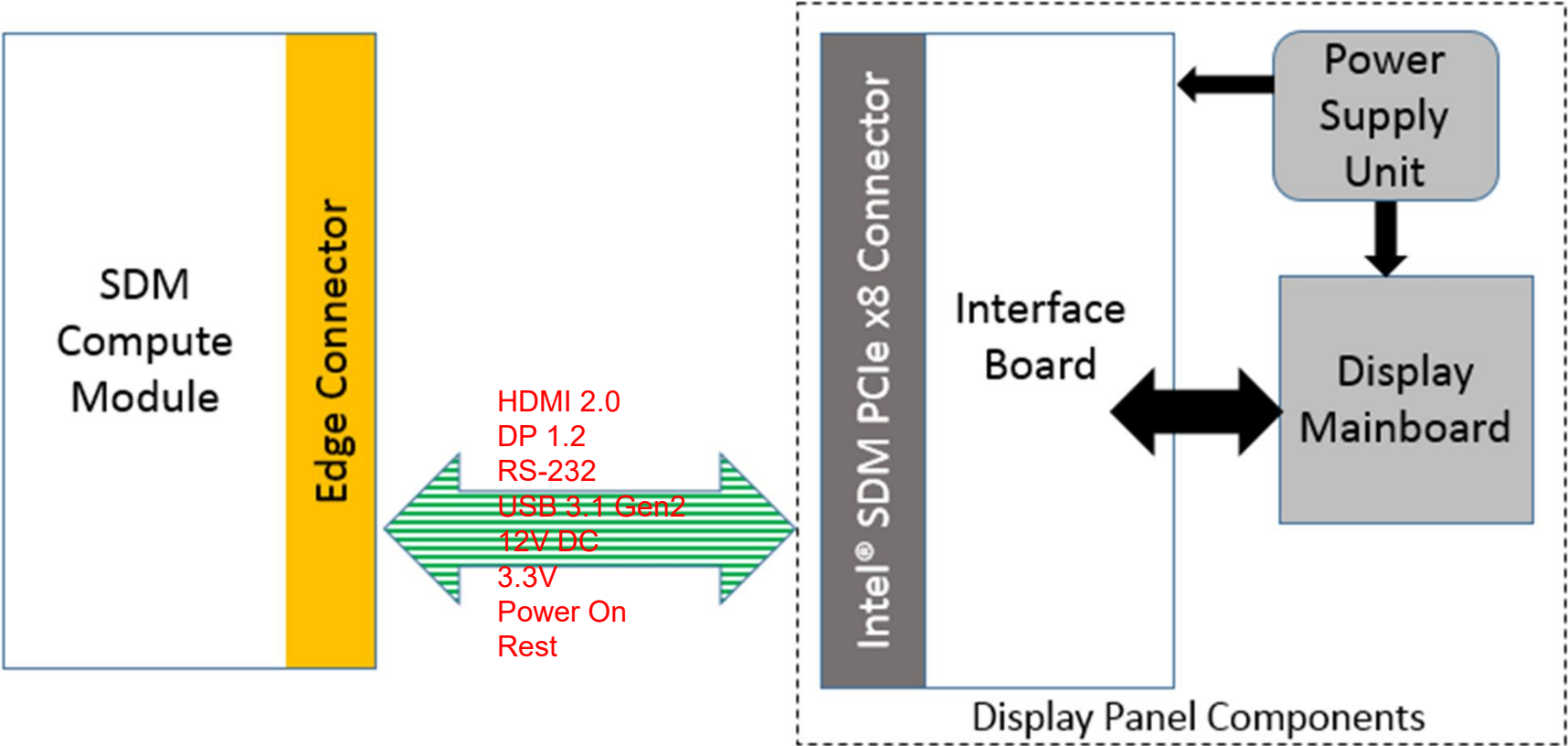
DS-200 Power Consumption

Item	i5 (Turbo off)	i5
Peak Current@12V (<28 Sec)	N/A	7.9597 A
Peak Current@12V (>28 Sec)	3.5 A	6.0487 A

DS-200 Air Flow Indication



SDM System Diagram



V-Pro for DS-200

- Support TPM 2.0 for security management
- Support VT (Virtualization Technology)
- Support AMT (Active Management Technology)

Remark: For i5 8400H SKU only



SDM Value Proposition

DS-200 is built with Intel Coffee Lake H CPU which is the highest performance SDM-L player in the market. The powerful, slim and slot-in design is the best choice for Signage Display, Interactive Whiteboard, Video Wall, Interactive KIOSK, and Intelligent Vending Machine.



Basic Information for SDM-S & SDM-L

Item	SDM-S	SDM-L
Module Size	60mm x 100mm	175mm x 100mm
Memory	On Board Memory	2 x SODIMM Slot
Storage	eMMC Storage	M.2 2242/2280
Wi-Fi / BT	On Board Module	M.2 2230
CPU	ATOM / KBL Y / KBL U	KBL U / CFL H

SDM Provider

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NEC

Panasonic

Quanta

 **LITEMAX**[®]

TPV
VISION INNOVATOR

 **elo**

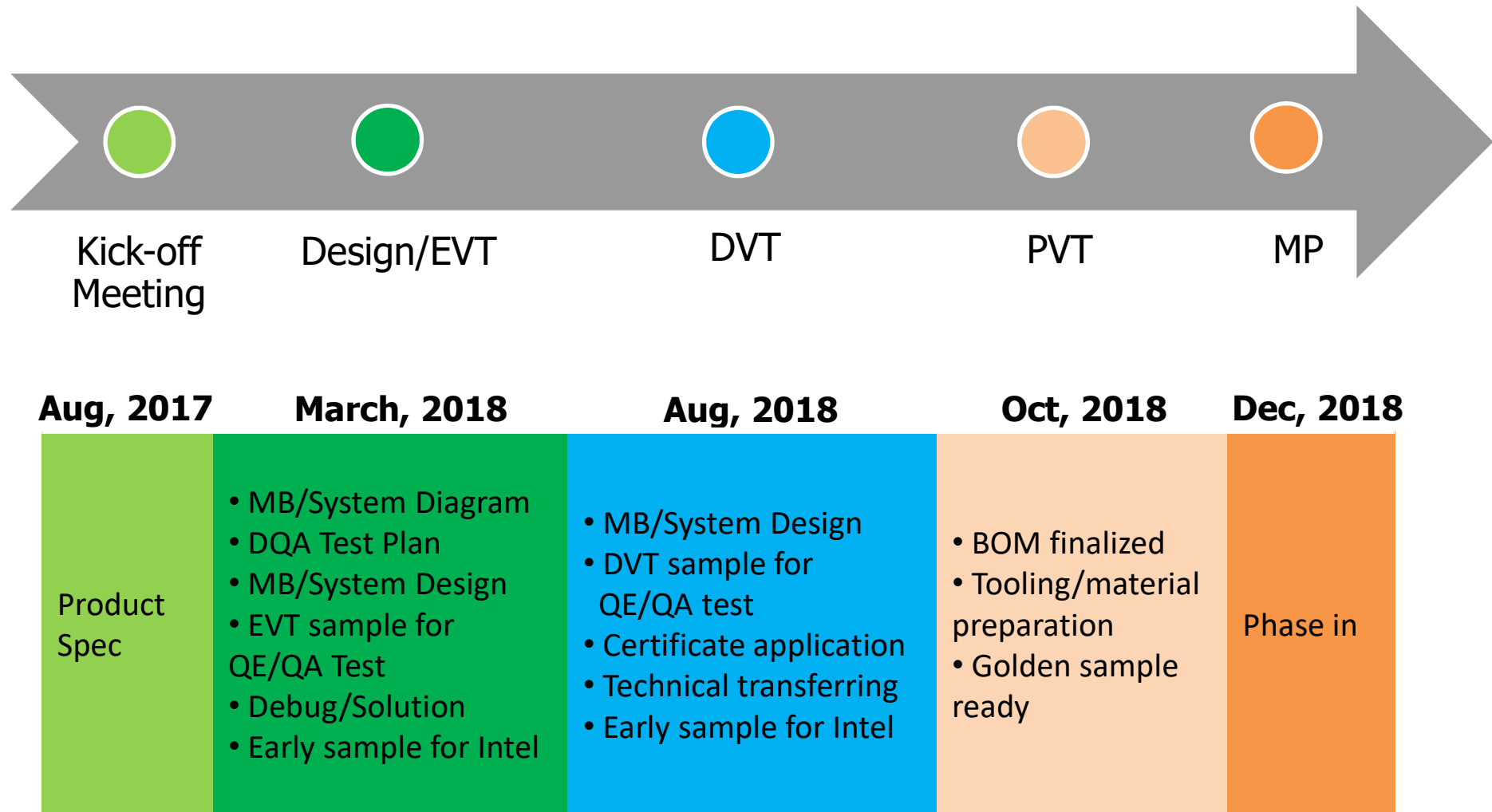
ASUS[®]
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Wi-Fi & BT module



Model	TBD
Main Chipset	Qualcomm QCA6174A
Form Factor	M.2 2230 E Key
Wireless Standard	IEEE 802.11 ac/a/b/g/n ; BT4.1
Band	Dual (2.4/ 5GHz)
Tx/Rx	2Tx / 2Rx
Data Rate	Up to 867 Mbps for Wi-Fi

DS-200 Schedule



Product Life Cycle

Note:

- Product life time may be extended beyond estimated EOL date.
- The official phase out date will be determined by Phase-out Notice of each product.

