



Simula Technology Type C Products : Accessories and Cables

July 2018

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About Simula

8 Facts about Simula



28 years
experience



IPO in Taiwan
(2009)



High speed
development



On site sales
and FAE



Established 1990



Global logistic

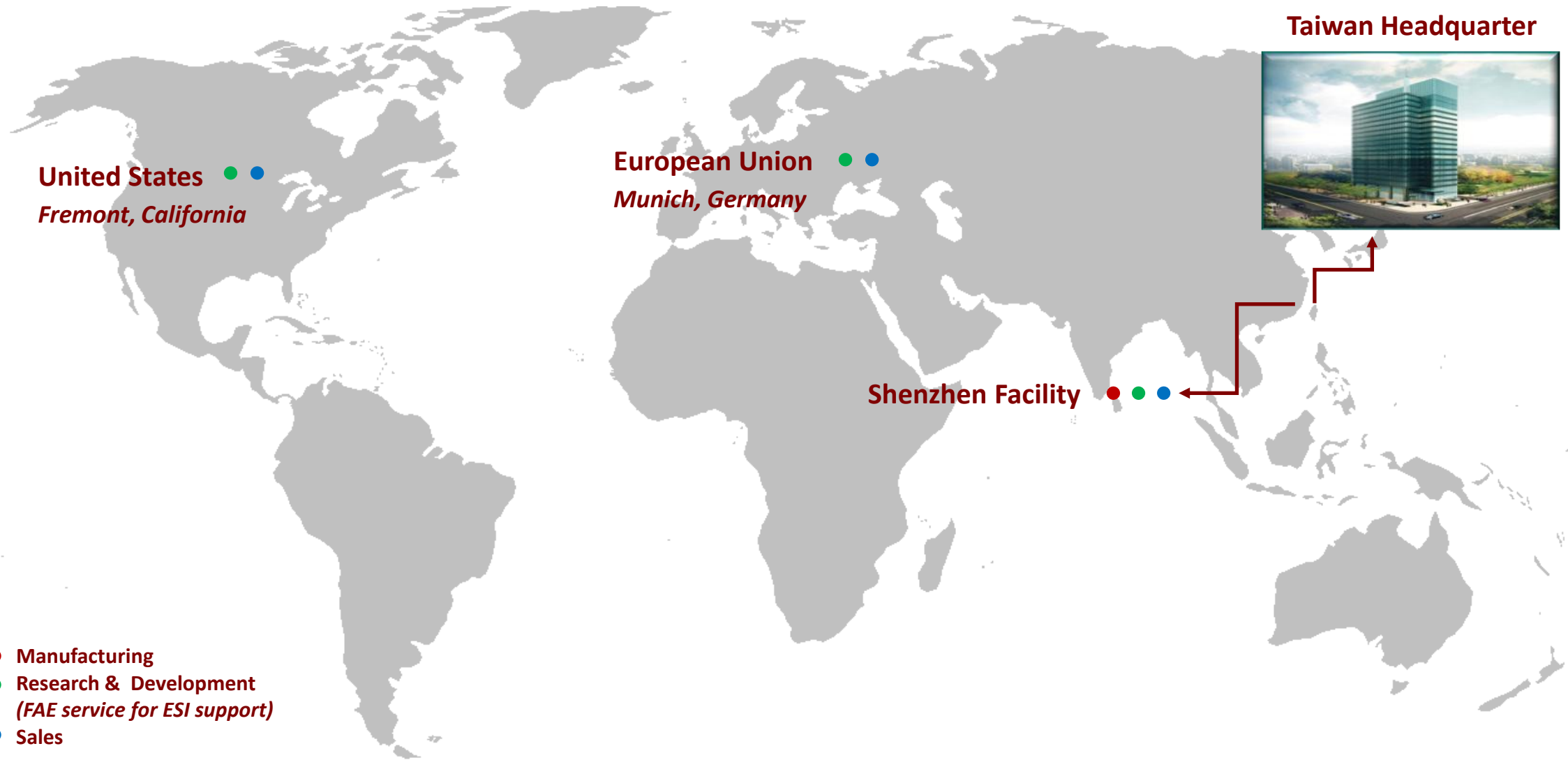


Development
team list



Integrated
solution provider

Global support



- Manufacturing
- Research & Development
(FAE service for ESI support)
- Sales

Taiwan Headquarter ● ● ●



Shenzhen Facility ● ● ●

List of Solutions

Lake Series



Elliott: Type-C to DP



Green: Type-C to HDMI



Martha: Type-C to VGA



Moses: Type-C to RJ45



Chelan: Type-C to USB3.0



Ozette: HDMI to VGA



Silver: Type-C to SATA

Creek Series



Rocky: Type-C to DP w/ Charging



Thunder: Type-C to HDMI w/ Charging



Swift: Type-C to VGA w/ Charging

Mountain Series



Baker: Type-C to 12 Ports



Rainier: Type-C to 6 Ports



Helens: Type-C to 3 Ports

Glacier Series



Aurora: 1C + 3A



Anderson: 2C + 2A



Anderson: 1C + 2A + RJ45



Bacon: 3-Port DP Hub



Lake Series



Adapter for 4K@60Hz DP1.4 Display

■ Features

- DP1.4 output
- Max Resolution: 4K@60Hz
- Billboard

■ Schedule

ES: Q4, 2017

Adapter for 4K@60Hz HDMI2.0b Display



■ Features

- HDMI2.0b output
- Max Resolution: 4K@60Hz
- HDCP 2.2
- HDR Support
- Billboard

■ Schedule

ES: Q4, 2017

Adapter for WUXGA 1920 x 1200@60Hz Display

■ Features

- VGA output
- Max Resolution: 1920 x 1200@60Hz
- Billboard

■ Schedule

ES: Q4, 2017





Adapter for Type-C to 1GbE Ethernet Connectivity

■ Features

- Type-C to 10/100/1000M Ethernet

■ Schedule

MP



Adapter for Type-C to Type-A Connectivity

■ Features

- Type-C to USB2.0/3.0

■ Schedule

MP



Adapter for HDMI to VGA Connectivity

■ Features

- HDMI1.4b to Full HD 1080P VGA
- MHL 2.2

■ Schedule

MP



Adapter for 6Gbps Personal Storage

■ Features

- SATA 6Gbps output
- Read: >380MB/s Write: >330MB/s
- Write protection
- Password security
- Billboard
- 12V/1A DC

■ Schedule

MP



Creek Series

Adapter for 4K@60Hz DP1.4 Display and Type-C Charging



■ Features

- DP1.4 output
- Max Resolution: 4K@60Hz
- PD downstream charging up to 5V/3A
- PD pass through charging up to 20V/3A
- Billboard

■ Schedule

ES: Q1, 2018

Adapter for 4K@60Hz HDMI2.0b Display and Type-C Charging



■ Features

- HDMI2.0b output
- Max Resolution: 4K@60Hz
- HDCP 2.2
- HDR Support
- PD downstream charging up to 5V/3A
- PD pass through charging up to 20V/3A
- Billboard

■ Schedule

ES: Q1, 2018

Neck and Neck Product Comparison

Thunder



Adapter for 4K@60Hz HDMI2.0b Display and Type-C Charging



Competitor

VIA + Parade

4K x 2K@60Hz

PD pass through charging up to 20V/3A

Alt-mode

HDCP1.4/2.2

Simula

VIA + Megachips

4K x 2K@60Hz

PD pass through charging up to 20V/3A

Alt-mode

HDCP1.4/2.2

PD downstream charging up to 5V/3A

HDR

Billboard



Adapter for WUXGA 1920 x 1200@60Hz Display and Type-C Charging



■ Features

- VGA output
- Max Resolution: 1920 x 1200@60Hz
- PD downstream charging up to 5V/3A
- PD pass through charging up to 20V/3A
- Billboard

■ Schedule

ES: Q1, 2018

Neck and Neck Product Comparison

Swift



Adapter WUXGA 1920 x 1200@60Hz Display and Type-C Charging



Competitor	Simula
VIA + ITE	VIA + Parade
1920 x 1080 @ 60Hz	1920 x 1200 @ 60Hz
PD pass through charging up to 20V/3A	PD pass through charging up to 20V/3A
DP Alt-mode	DP Alt-mode
	PD downstream charging up to 5V/3A
	Billboard



Mountain Series

Mini-Dock for 4K@60Hz HDMI2.0b display, USB3.0, and Type-C charging



■ Features

HDMI2.0b output

- Max Resolution: 4K@60Hz (push button switch between 2/4 lanes)
- HDCP 1.4/2.2
- HDR

USB-A output:

- USB3.0 data (5G)
- BC1.2/Samsung/Apple modes

USB-C input/output:

- USB3.1 Gen 2 (10G)
- PD pass-thru charging up to 20V/3A
- PD device charging up to 5V/3A

Billboard

■ Schedule

ES: Q4, 2018

Neck and Neck Product Comparison

Helens



Mini-Dock for 4K@60Hz HDMI2.0b display, USB3.0, and Type-C charging



Competitor	Simula
Fresco + Parade	VIA + Megachips
4K x 2K@30Hz	4K x 2K@60Hz
PD pass through charging up to 20V/3A	PD pass through charging up to 20V/3A
Type-C female with Data + Power	Type-C female with Data + Power
USB 3.1 Type A Gen 1	USB 3.1 Type A Gen 1
Alt-mode	Alt-mode
PD downstream charging up to 5V/3A	PD downstream charging up to 5V/3A
	HDCP1.4/2.2

1-6 Dock for HDMI2.0b Video and Peripherals Expansion of a Host Device



■ Features

- HDMI2.0b output
- Max Resolution: 4K@60Hz
(push button switch between 2/4 lanes)
- PD downstream charging up to 5V/3A
- PD pass through charging up to 20V/3A
- DFP Type-C: Charging + Data (10G)
- 2 x USB3.0 (BC1.2/Samsung/Apple)
GbE /3.0 SD USH-I card reader
- HDCP 2.2/HDR
- Billboard

■ Schedule

ES: Q4, 2018

Neck and Neck Product Comparison

Rainier



1-6 Dock for HDMI2.0b Video and Peripherals Expansion of a Host Device



Competitor	Simula
VIA + Parade	VIA + Megachips
4K x 2K@30Hz	4K x 2K@60Hz
HDCP1.4/2.2	HDCP1.4/2.2
Alt-mode	Alt-mode
SD 3.0 card reader	SD 3.0 card reader
2 x USB3.1 Gen 1 (5G/4.5W per)	2 x USB3.1 Gen 1 (5G/12W per)
PD pass through charging up to 20V/3A	PD pass through charging up to 20V/3A
GbE	GbE
	BC1.2/Samsung/Apple
	PD downstream charging up to 5V/3A
	Billboard
	HDR

1-12 Dock for DisplayPort/HDMI/VGA Video and Peripherals Expansion of a Host Device



■ Features

- Up to maximum 5 video outputs
 - 3 x DP1.4 output (4k/60Hz)
 - 1 x HDMI2.0b output (4K/60Hz)
 - 1 x VGA (1920 x 1080 @ 60Hz)
- 1 x Type-C 5V/1.5A charging output
- 4 x USB3.1 Gen1 with 4.5W charging
- Audio speaker
- GbE
- Maximum 180W pass through DC power

■ Schedule

ES: Q4, 2018

Glacier Series



Three ports USB 3.0 + One Type C Hub

■ Features

- 3 x USB-A (10 Gbps) output ports (BC1.2/Samsung/Apple charging)
- 1 x USB-C(10 Gbps) output port
- PD downstream charging up to 5V/3A
- PD pass through charging up to 20V/3A
- Cable length 0.15m

■ Schedule

ES: Q1, 2018



Two ports USB 3.0 + Two Type C Hub

■ Features

- 2 x USB-A (5/10 Gbps) output ports (BC1.2/Samsung/Apple charging)
- 2 x USB-C(5/10 Gbps) output port
- PD downstream charging up to 5V/3A
- PD pass through charging up to 20V/3A
- Cable length 0.15m

■ Schedule

ES: Q1, 2018

Two ports USB 3.0 + One RJ45 + One Type C Hub



■ Features

- 2 x USB-A (5/10 Gbps) output ports (BC1.2/Samsung/Apple charging)
- 1 x USB-C(5/10 Gbps) output port
- 1 x 10/100/1000M GbE
- PD downstream charging up to 5V/3A
- PD pass through charging up to 20V/3A
- Cable length 0.15m

■ Schedule

ES: Q1, 2018



DP1.4 MST Hub

Splits Monitor Into 3 Independent Displays

■ Features

- DP1.4 output
- Max Resolution: 7680 x 4320@60Hz
- Dual 3840 x 2160@60Hz displays
- MST
- DSC1.2
- HDR

■ Schedule

ES: Q4, 2018

Type C Cable

Description	Feature
CB8A5A-6000-10F 	USB-IF Certified 10Gbps Bandwidth 5A Power Delivery 1 Meter

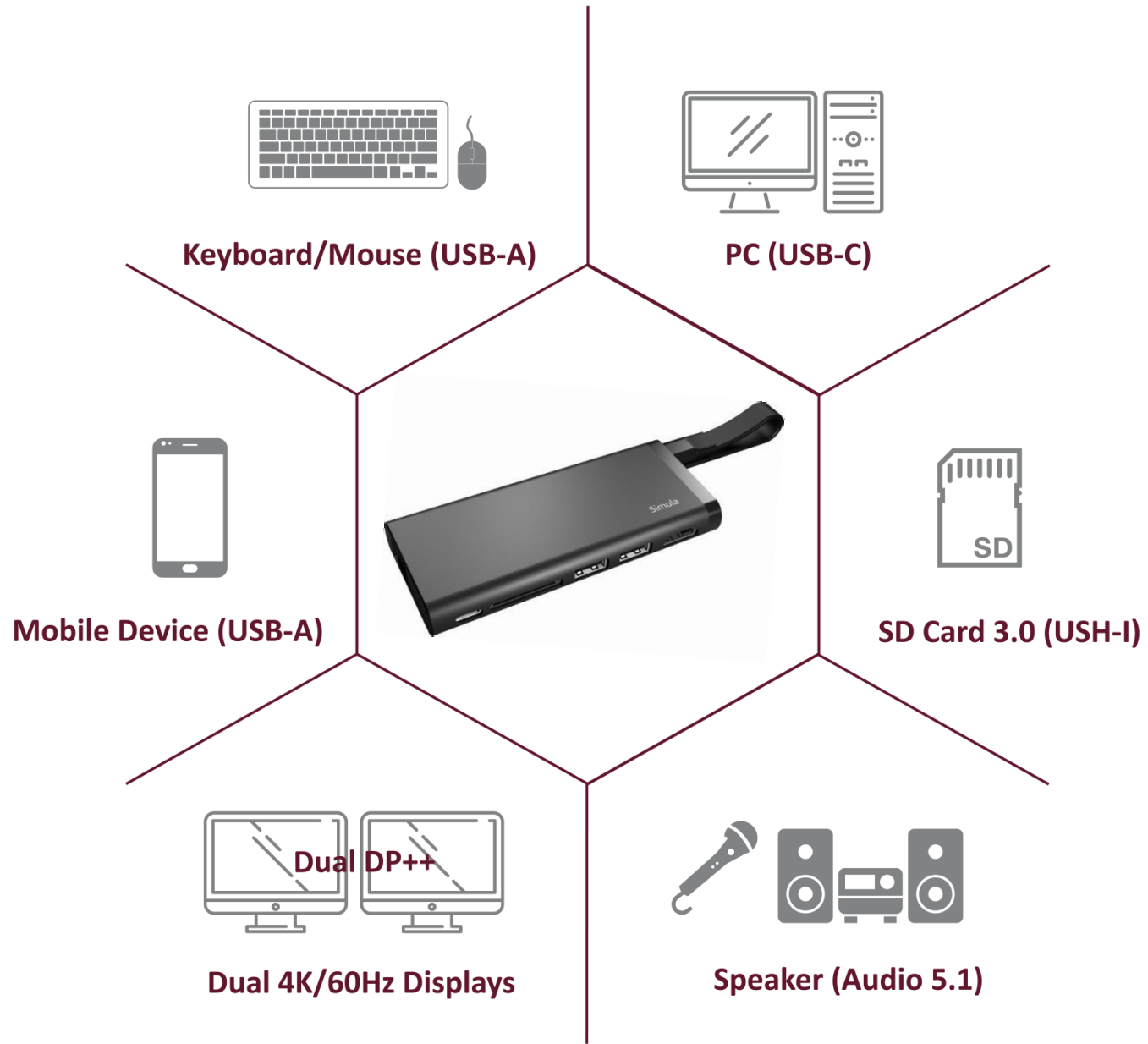
CB8A5E-6000-11F 	5Gbps Bandwidth 3A Power Delivery 1 Meter
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Description	Feature
CB8A7H-6000-102 	5Gbps Bandwidth 3A Power Delivery 1 Meter

CB8A5N-6010-10F 	480Mbps Bandwidth 3A Power Delivery 1 Meter
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CB8A8F-8040-122 	480Mbps Bandwidth 3A Power Delivery 2 Meters
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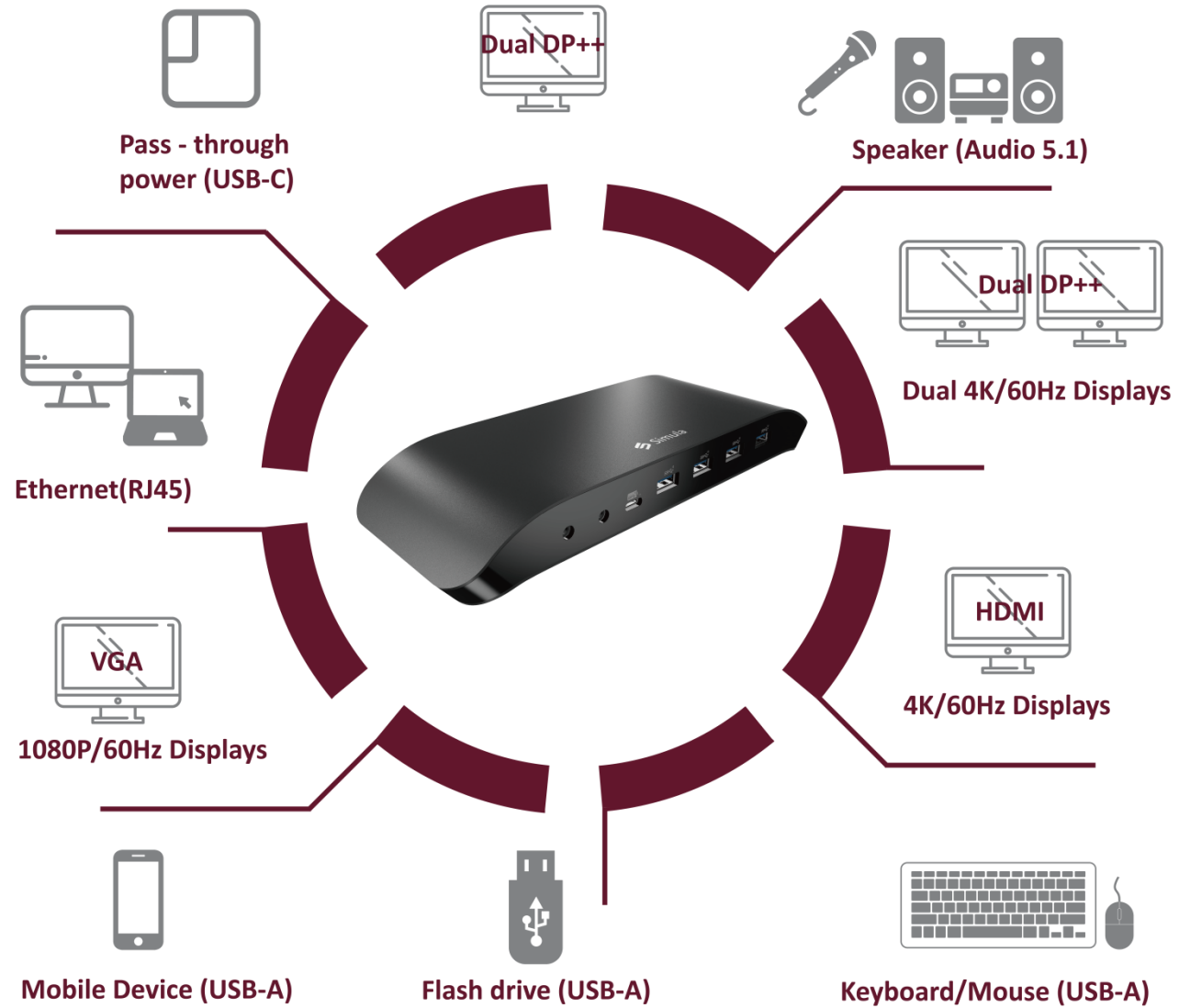
User Scenario 1



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User Scenario 2



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Lake/Creek/Mountain Roadmap





Engineering Sampling



Under Development



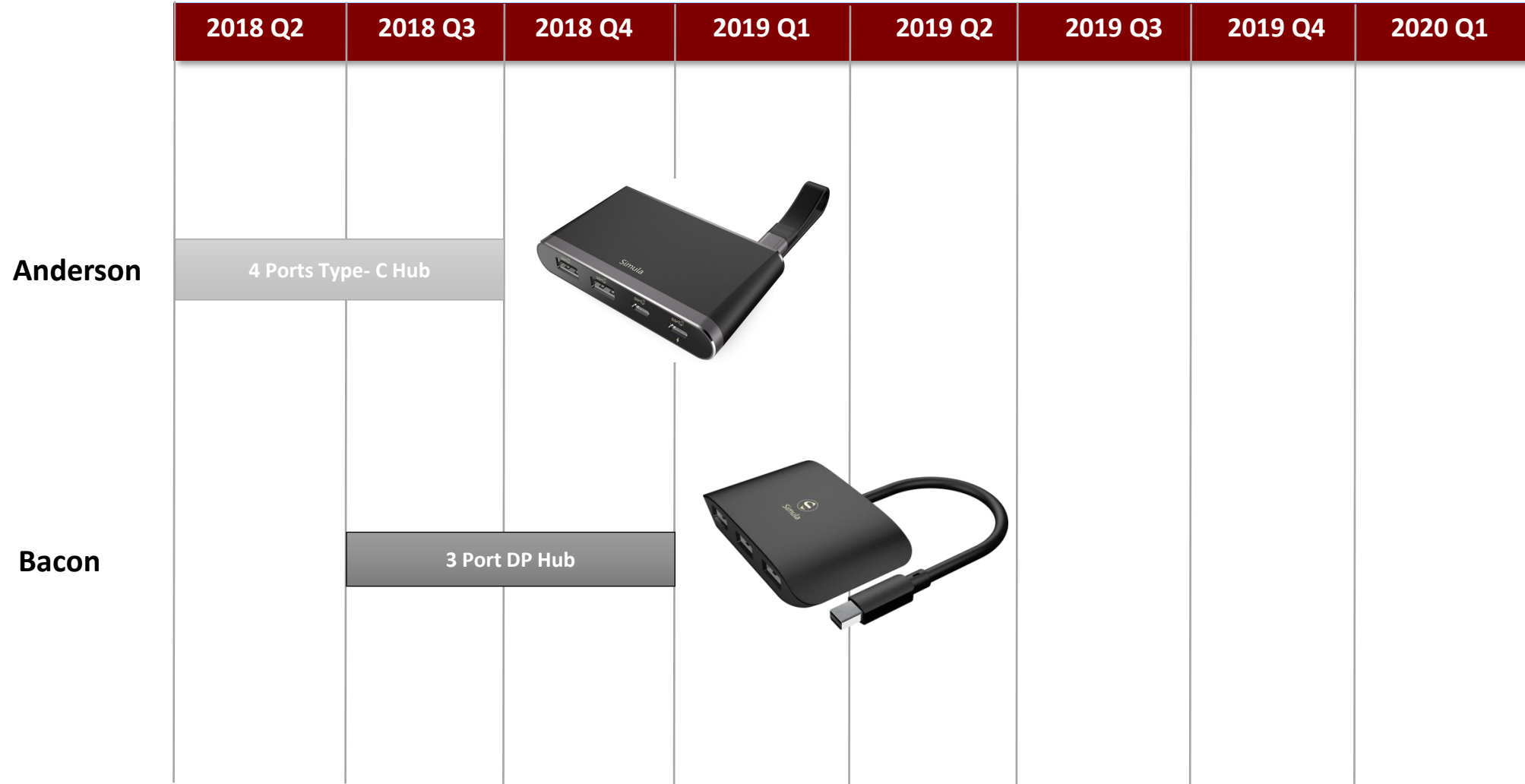
MP

	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2019 Q3	2019 Q4	2020 Q1
Rainier		1 To 6 Dock						
Elliott	Type-C to DP 1.4							
Green	Type-C to HDMI 2.0b							
Martha	Type-C to VGA							
Silver	Type-C to 6G SATA							
Helens			1 To 3 Mini-Dock					
Rocky	Type-C to DP 1.4 w/ Charging							
Thunder	Type-C to HDMI 2.0b w/ Charging							
Swift	Type-C to VGA w/ Charging							
TBT-3		TBT-3 Dock						
Variety of Type-C Dongles/Docking Stations/Hubs								

Glacier Roadmap



Engineering Sampling Under Development MP







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Thank you