

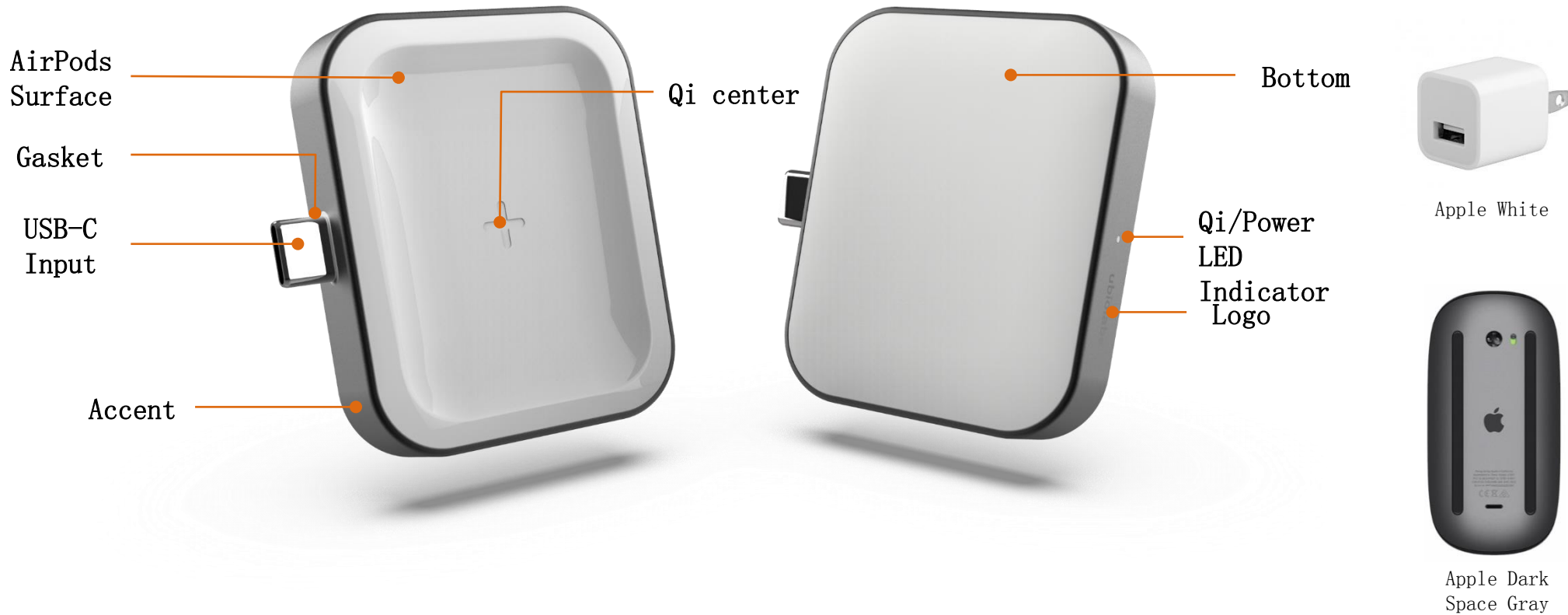
Product Description

The Ubio Labs AWC1058 is a compact, wireless charging module for AirPods. It derives its power from a compatible USB-C receptacle capable of supplying power and will keep your AirPods charged and ready.



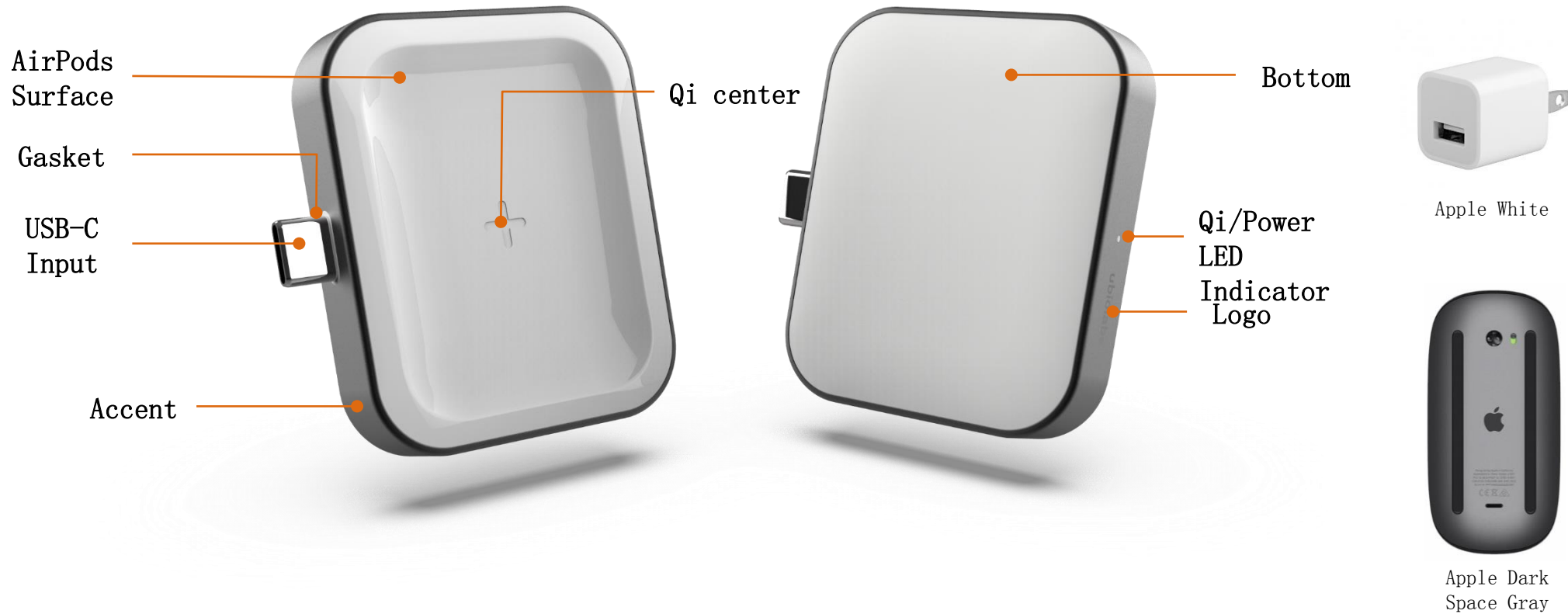
CMP item#: AWC1058	Description: Module, 5W Qi Wireless Charger, USB-C In	
<p style="text-align: center;">ubiolabs</p> <p>This document is proprietary & confidential. Do not copy or distribute without consent.</p>	Revision: 100	Date: 08/21/2019

CMP#: AWC1058SG



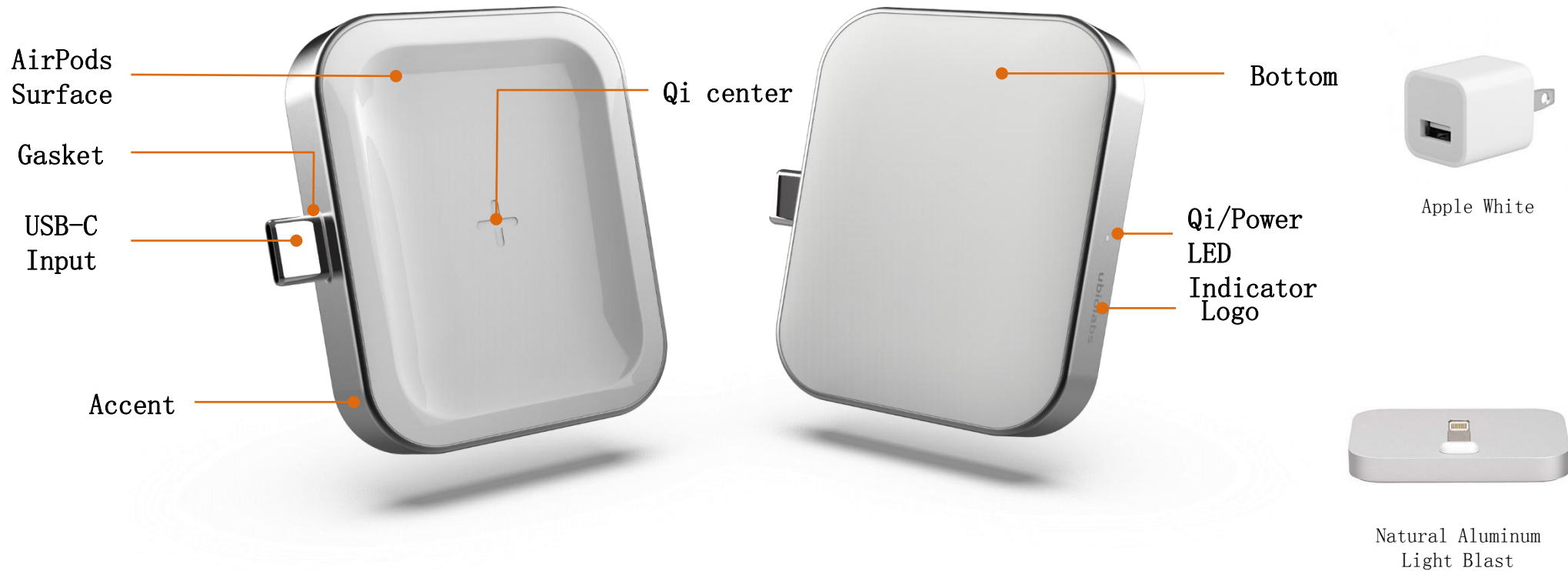
Part	Color / Material / Finish	Notes
Bottom / Gasket	Apple White / ABS / YS20019	
AirPods Surface	Apple White / ABS / Gloss	
Qi Center	Apple White / ABS / Gloss	Deboss 0.1mm
Accent	Apple Dark Space Gray Light Blast / ABS / Paint	
Logo	Clear/ Pad Print / Gloss	
Industrial Designer:	Ken Jasinski	
STP File Name:	AWC1058 Qi USB-C in_REV100.STEP	

CMP#: AWC1058SG – AL



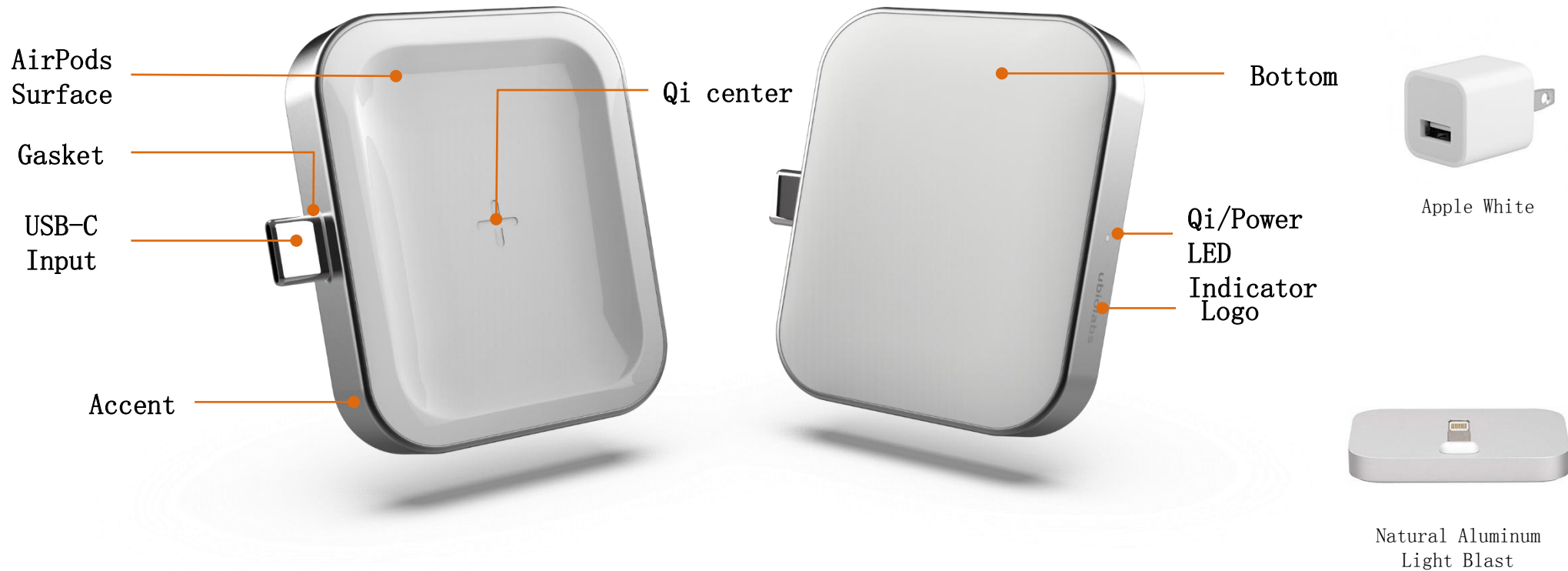
Part	Color / Material / Finish	Notes
Bottom / Gasket	Apple White / ABS / YS20019	
AirPods Surface	Apple White / ABS / Gloss	
Qi Center	Apple White / ABS / Gloss	Deboss 0.1mm
Accent	Apple Dark Space Gray / Aluminum / Light Blast	
Logo	Clear/ Pad Print / Gloss	
Industrial Designer:	Ken Jasinski	
STP File Name:	AWC1058 Qi USB-C in_REV100.STEP	

CMP#: AWC1058NA



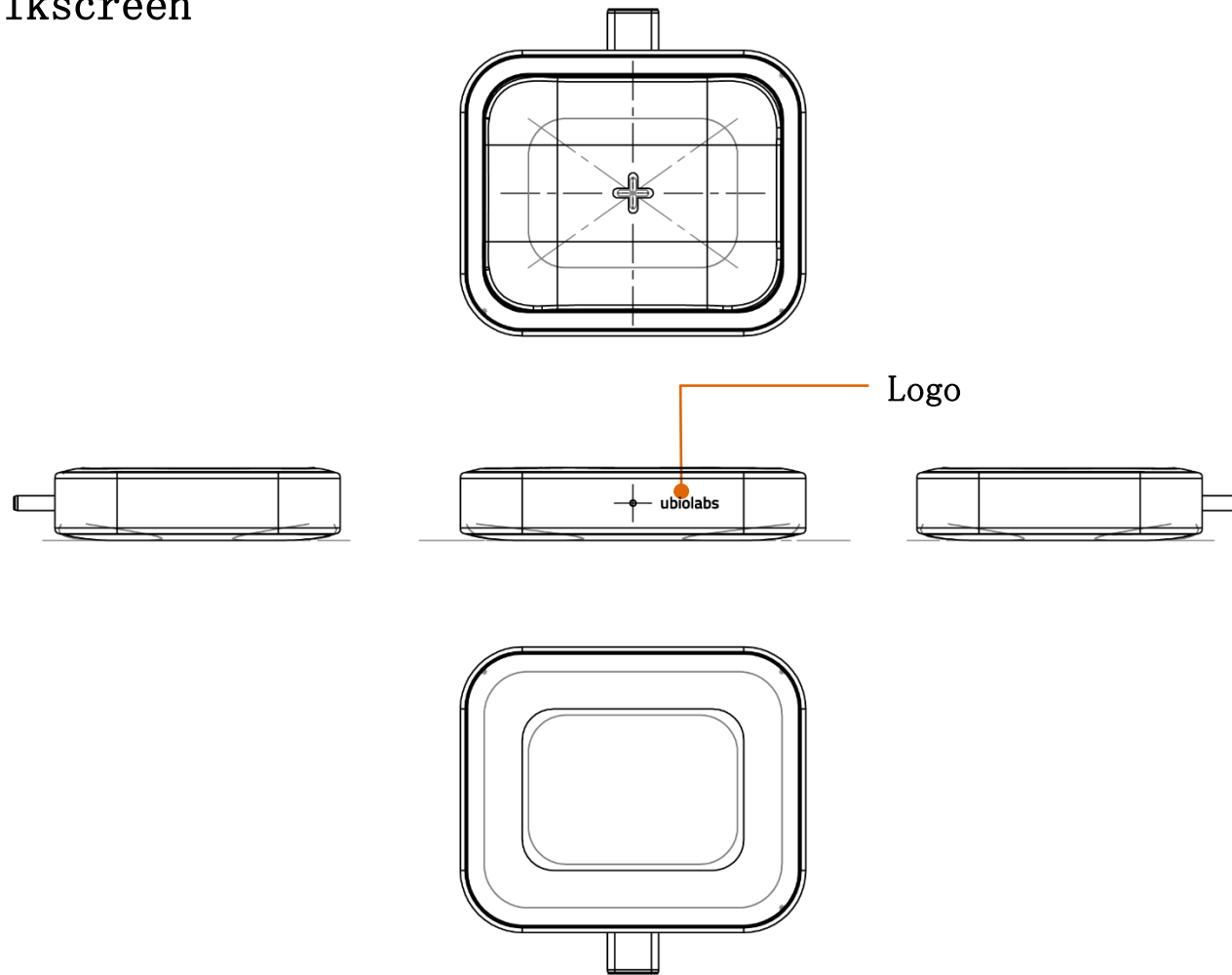
Part	Color / Material / Finish	Notes
Bottom / Gasket	Apple White / ABS / YS20019	
AirPods Surface	Apple White / ABS / Gloss	
Qi Center	Apple White / ABS / Gloss	Deboss 0.1mm
Accent	Natural Aluminum Light Blast / ABS / Paint	
Logo	Clear/ Pad Print / Gloss	
Industrial Designer:	Ken Jasinski	
STP File Name:	AWC1058 Qi USB-C in_REV100.STEP	

CMP#: AWC1058NA – AL



Part	Color / Material / Finish	Notes
Bottom / Gasket	Apple White / ABS / YS20019	
AirPods Surface	Apple White / ABS / Gloss	
Qi Center	Apple White / ABS / Gloss	Deboss 0.1mm
Accent	Natural Aluminum / Aluminum / Light Blast	
Logo	Clear/ Pad Print / Gloss	
Industrial Designer:	Ken Jasinski	
STP File Name:	AWC1058 Qi USB-C in_REV100.STEP	

CMP#: AWC1058 Silkscreen

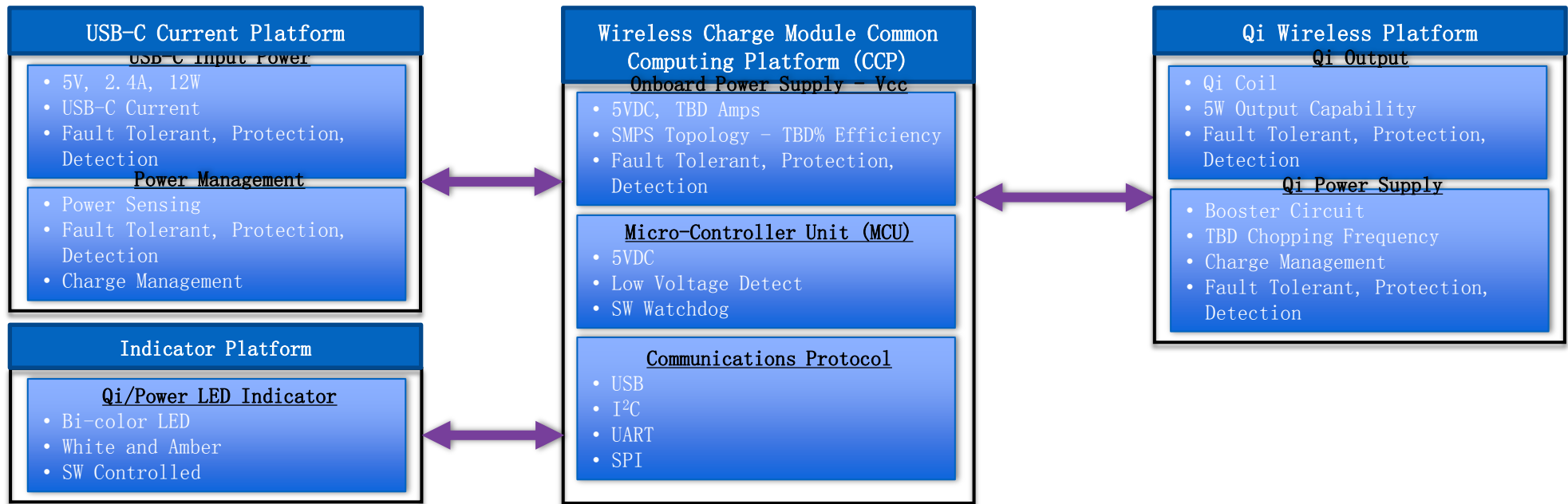


Part	Color / Material / Finish	Notes
Logo	Clear/ Pad Print / Gloss	
Industrial Designer:	Ken Jasinski	
.PDF File Name:	AWC1058 Pad Print_Logo_REV100	Regulatory marking provided later - Please include in Quote



Qi/Power LED Indicator Functionality		
Condition	LED Status	Functionality
Device Charging, Charged	●	Illuminates white
No device, not charging	○	Not illuminated
Fault Foreign Object Detection	●	Illuminates amber for fault due to foreign object detection
Input Power	●	Illuminates white for 1 second at power up and then turns off if no device detected
● ON ○ OFF		

- A. **USB-C Input:** The USB-C Input is used to provide power to the wireless charging module. Plugging the module into a compatible USB-C receptacle will automatically power up the module and remain on as long as the module is plugged in.
- B. **Qi Coil:** The Qi coil placed behind the top cover will allow charging of wireless AirPods case immediately upon placement on the coil location. This will initiate the Qi/Power Indicator functionality.
- C. **Qi/Power LED Indicator:** The Qi/Power Indicator is a dual color White/Amber LED. It shall illuminate as described in the table above.



- A. **Platform Based Design: Platform Based Design:** The AirPlugs product family shall be designed such that it is modular in nature for Hardware, Software, Mechanical functionality, design reusability and platformization. All adjustable variables such as time delays, duty cycles, frequencies etc. shall be software controlled to reduce impact to hardware in anticipation of standards and specification changes in the future.
- B. **USB-C Current Platform:** This platform accepts USB-C input from a compatible USB-C device. All end-user facing I/O' s, onboard I/O' s, interfaces and functionality pertaining to this platform shall be designed to comply with the applicable USB and MFi specifications.
- C. **Indicator Platform:** This platform provides the Indicator User Interface (UI) capability. All end-user facing I/O' s, onboard I/O' s, interfaces and functionality pertaining to this platform shall be designed to comply with the indicator functionality described here within this document.
- D. **Wireless Charge Module Common Computing Platform (CCP):** This platform provides the control logic and communication capabilities. All software functions, interfaces and libraries should be modular to align with hardware functionality and vice-versa. For example, USB-C Current I/O Platform Hardware and Software are modular and go together. Standard software development tools and common hardware chipsets shall be used to ensure ease of development and debugging.
- E. **Qi Wireless Platform:** This platform provides Qi Wireless Charging capability. All end-user facing I/O' s, onboard I/O' s, interfaces and functionality pertaining to this platform shall be designed to comply with the applicable Qi and MFi specifications.
- F. **Mechanical Parts and Tooling:** The AirPlugs product family shall use common tooling and mechanical parts in order to reduce unique parts count and

Performance Specifications	
Input 1	USB-C Input Plug - 5V, 2.4A, 12W
Output 1	Qi Inductive Output - 5W BPP
Dimensions (H x W x D)	11.65mm x 55.7mm x 46mm
Weight	40g

NOTES:

1. All inputs and outputs shall be designed to meet the Apple MFi standard, where applicable, even if they don't see the full load of the device attached to it.
2. All USB-C Inputs/Outputs shall be design to comply with USB-IF compliance, where applicable.

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC WARNING

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device

ADVERTENCIA IC

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

- (1) Cet appareil ne doit pas causer d'interférences.
- (2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.