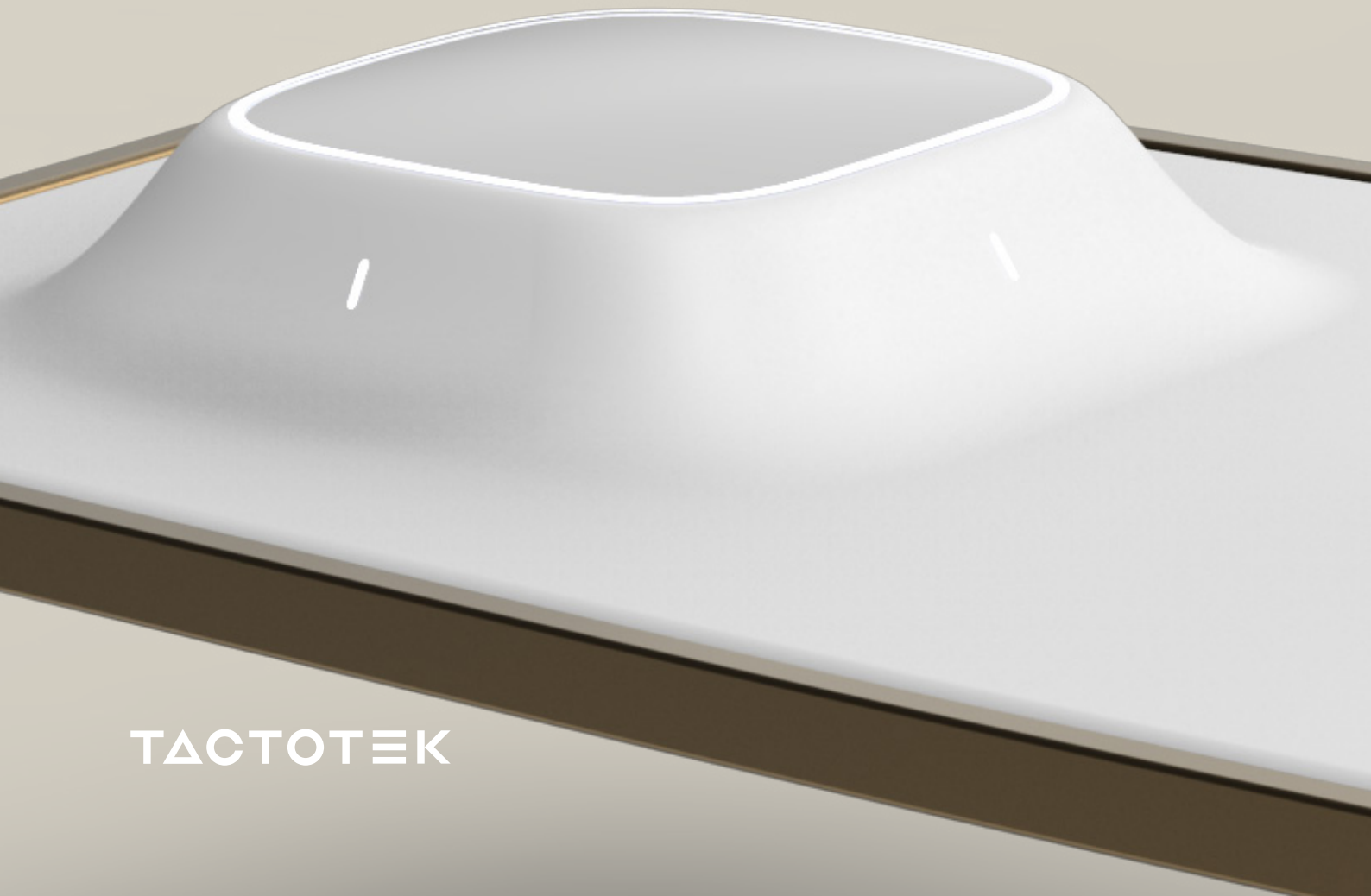
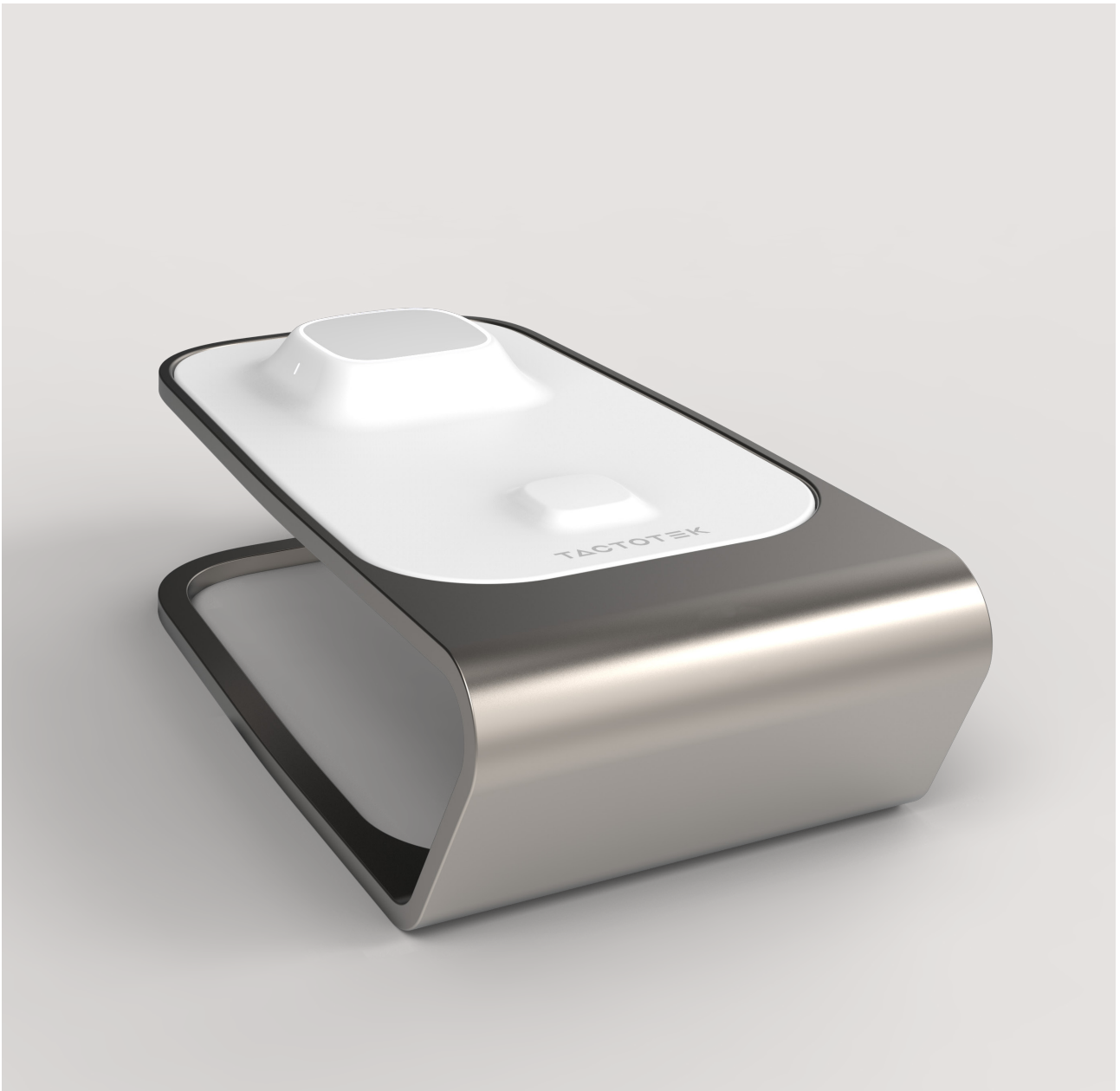


# Introducing the Mesa Controller with IMSE<sup>®</sup> SiP Integration

TactoTek<sup>®</sup> Mesa IMSE<sup>®</sup> Controller



TACTOTEK

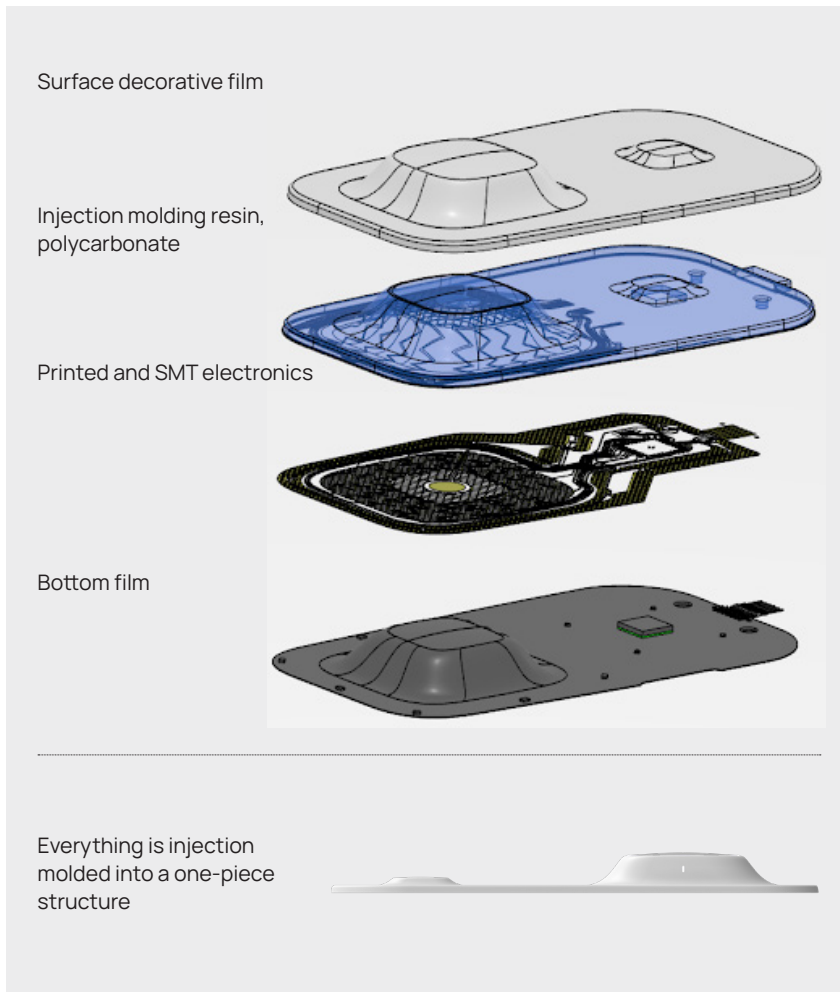


*This revolutionary thin controller's name "Mesa" means an isolated, flat-topped hill with steep sides.*

MESA IMSE® CONTROLLER

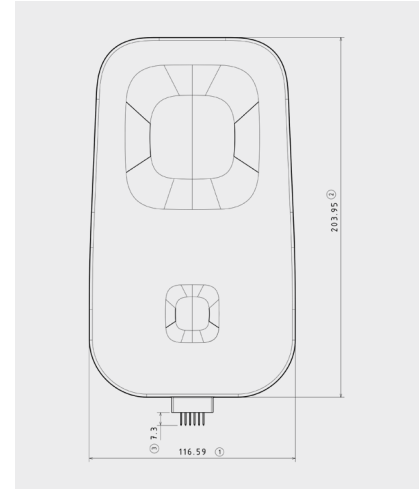
## Making Smart Surfaces Smarter

Mesa IMSE® Controller presents an elegant, intuitive touch control interface. The Mesa design integrates sophisticated system electronics, IMSE SiP inside the IMSE part. In Mesa, the IMSE SiP controls capacitive touch functions and smart RGB LEDs providing functional and ambient illumination.



### TactoTek® Mesa

Mesa features configurable single touch and multi-touch controls for efficient and intuitive use case-driven interaction support. Each side has a capacitive slider and the top can feature one or two buttons.



### Mechanics Design

Design and simulation with Catia and related tools following TactoTek IMSE Designer® rules

### IMSE Building Blocks

#### Touch Functions

- Capacitive sliders (sides)
- Capacitive button (top)

#### Illumination

- Indicator lighting
- Ambient lighting

#### Part Overview

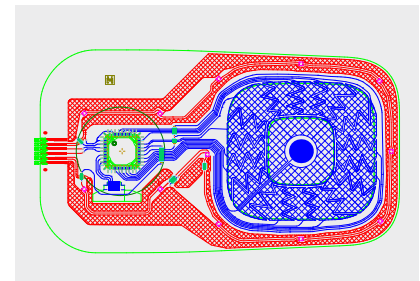
- Single-piece, seamless design
- Wall thickness: 4.5 mm
- Weight: 130 grams
- In-mold electronics: IMSE SiP, circuitry, touch controls, lighting (smart RGB LEDs)
- UART connector

### Primary Production Processes

- Screen printing and curing
- Surface mounting electronics-high speed 2-dimensional
- High pressure thermoforming
- Injection molding

### Tooling Requirements

- Injection molding (1)
- A (top) film forming (1)
- B (bottom) film forming (1)
- Film trimming (2)



### Electronics Layout

In mold electronics engineered to TactoTek IMSE Designer® rules using Altium Designer

Start building smarter  
surfaces today with the  
help of TactoTek®

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