



# BOARD TO BOARD CONNECTOR

4-Row 0.175Pitch

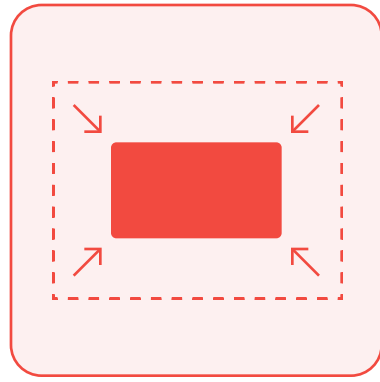




# INTRODUCTION

UJU solves the challenges of developing compact technologies by researching and offering customized solutions for engineers. This has led to the creation of a 4-Row product that combines technology and meets the demand for lighter and smarter devices in ever tighter design spaces.





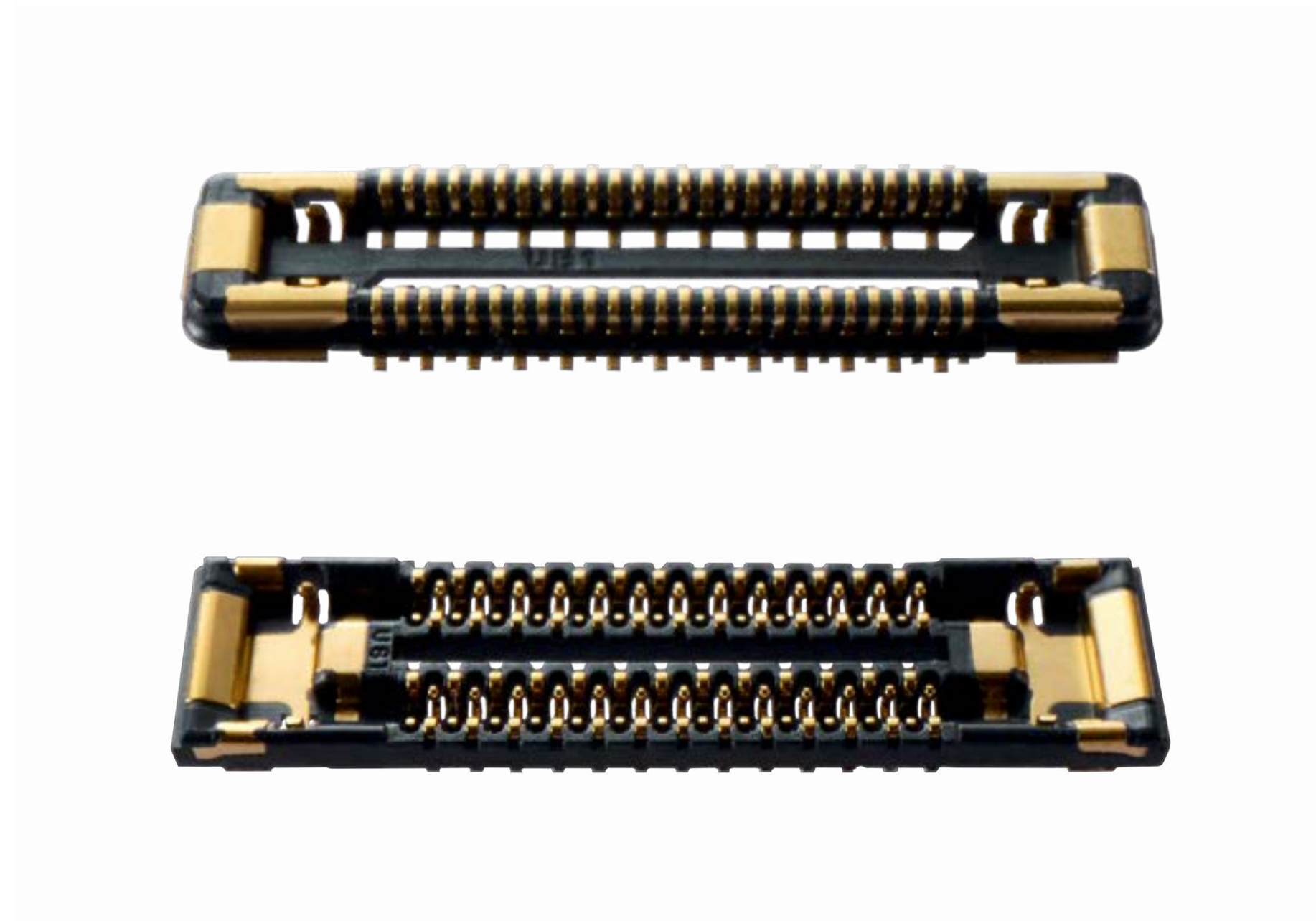
## Space Savings

The narrowest existing pitch with staggered contact type.



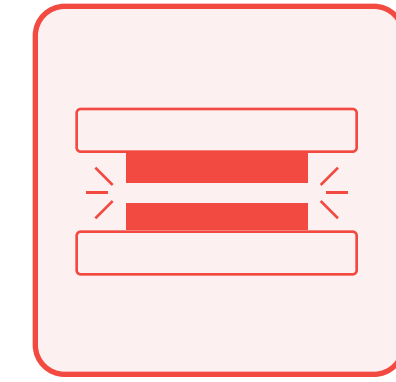
## Max. Strength

Full-Insert Robust Structure



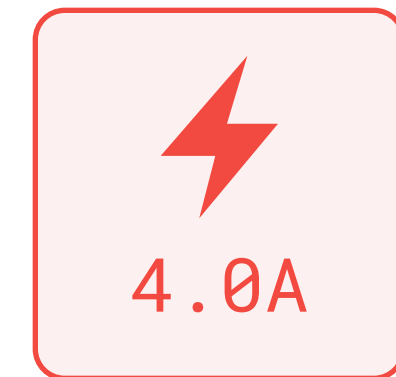
# 4-Row

## 0.175Pitch



## EZ Mating™

Technology to help you work better



## Expanded Application

4.0A of current & More power and signal contacts



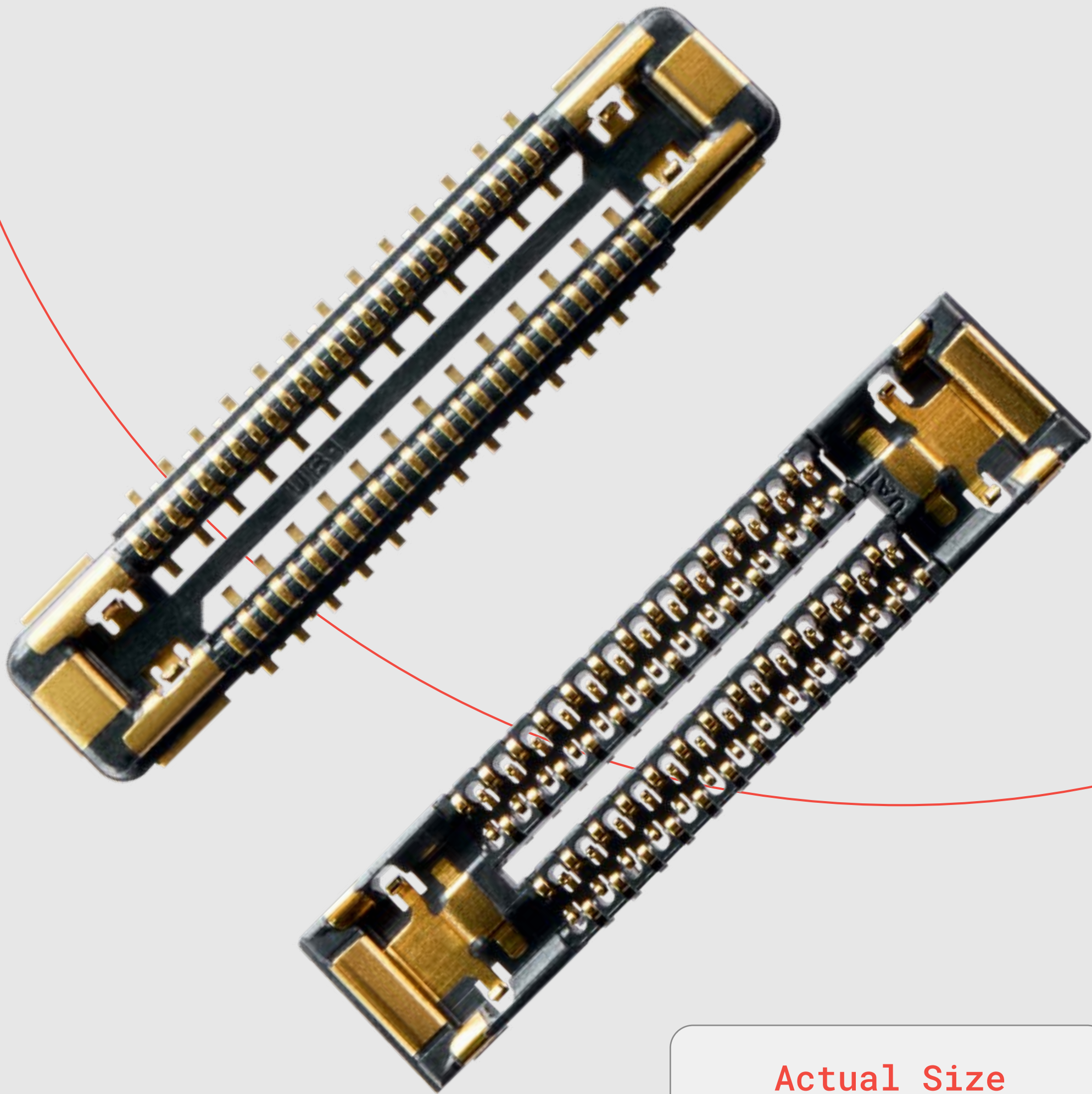
# FEATURES & ADVANTAGES

## Experience the freedom of space with UJU technology

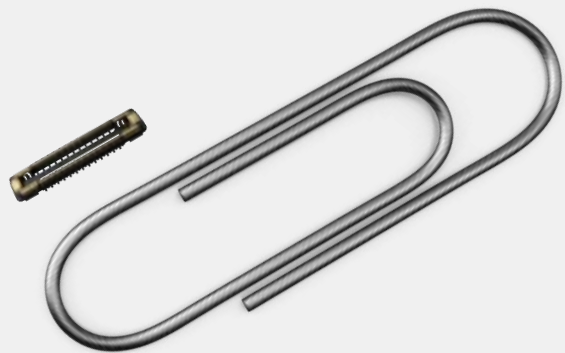
- Excellent Space Saving Solution
- Narrower 1.9mm width - 5.3% smaller width
- Full Dual-Contact - both electrically & mechanically
- Bellows Type Contact Structure
- Power 4.0A/end cap - 4 contact reliability | Signal 0.3A/pin
- Full-Insert-molded, Robust Structure
- Easy matching between products.

Pitch SIZE	High Current	Mating Size
0.175mm	4.0A	Width : 1.90mm Height : 0.60mm

Pin & Mating Length
80Pin - Length 10.83mm
64pin - Length 9.43mm
52pin - Length 8.38mm
44pin - Length 7.68mm
32pin - Length 6.63mm



Actual Size

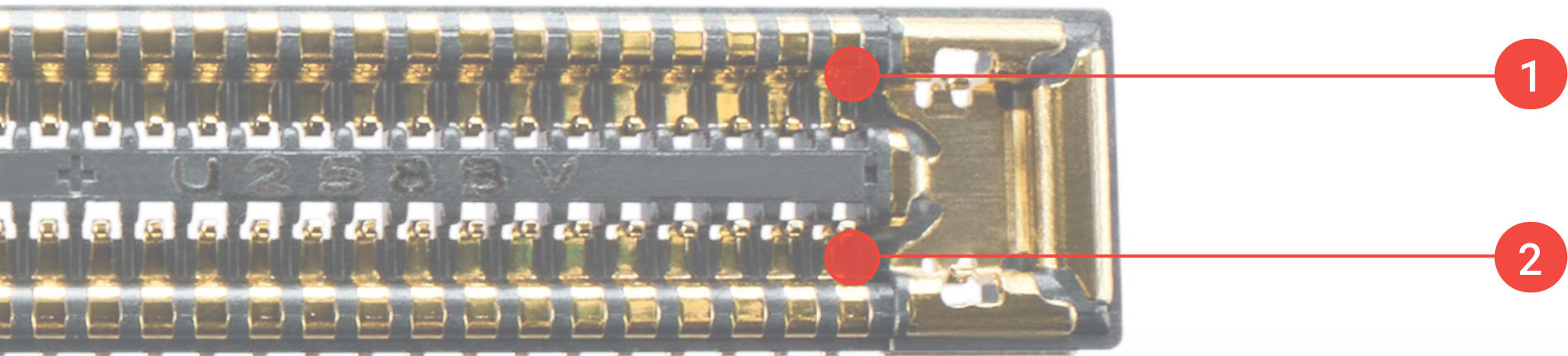




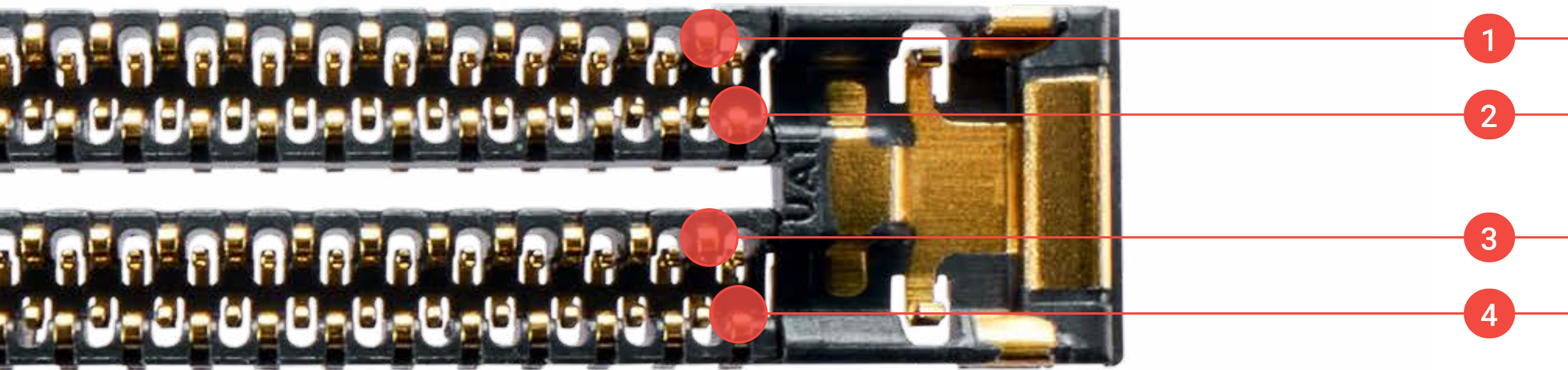
# SPACE SAVINGS

The design of the connector has been transformed into a 4-row. This innovative redesign reduces pitch by more than 40%. A compact connector was developed without compromising performance. Our BtoB connectors are not only more compact, but also smarter. The signal contacts in the connector are staggered, reducing the pitch even further to an impressive 0.175mm pitch. This unique design guarantees excellent connectivity even on the most compact IT devices.

2-Row 0.3pitch



4-Row 0.175pitch

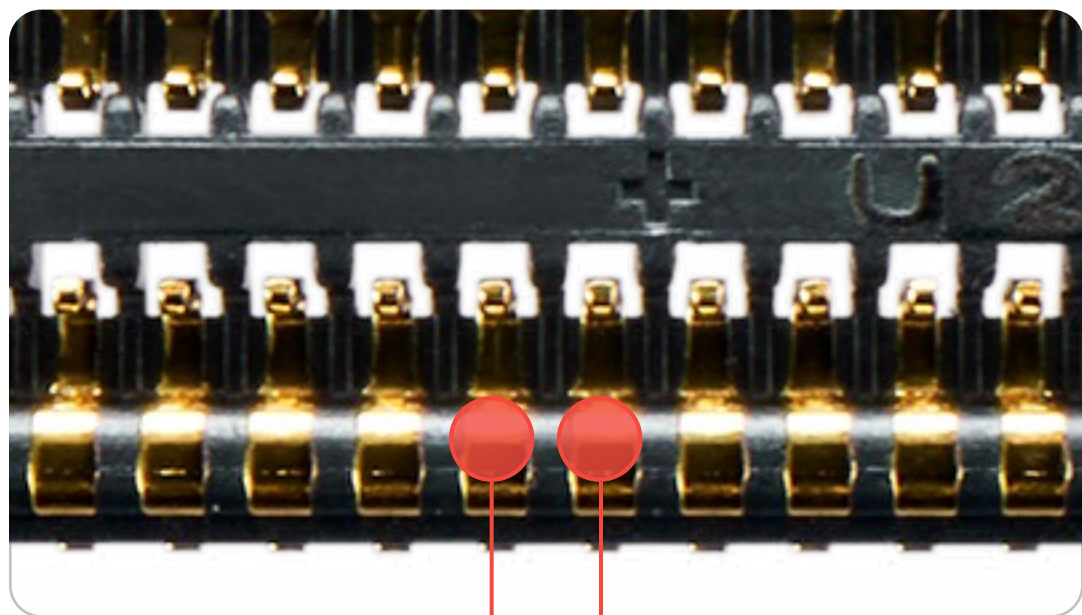


staggered pattern for pitch spacing

## Utilized a 4-Row configuration to minimize SMT footprint

The board-to-board connectors contacts are staggered to reduce the pitch to 0.175mm pitch.

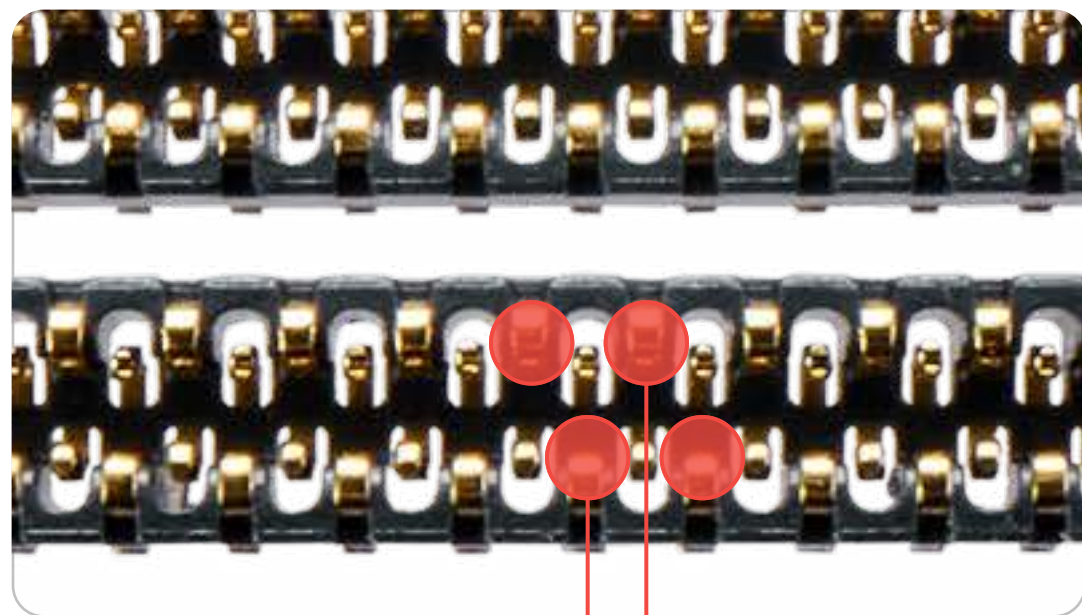
2-Row 0.3pitch



0.3mm pitch



4-Row 0.175pitch



0.175mm pitch



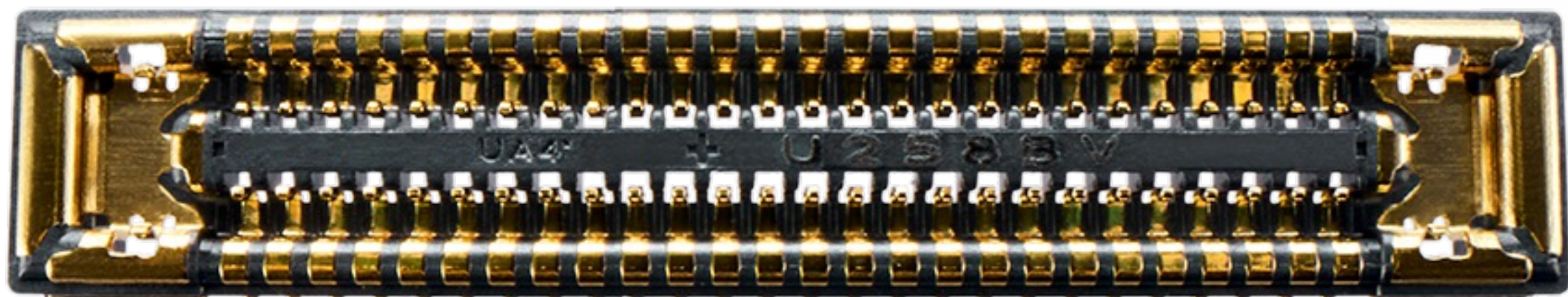


# SPACE-CONSCIOUS DESIGN

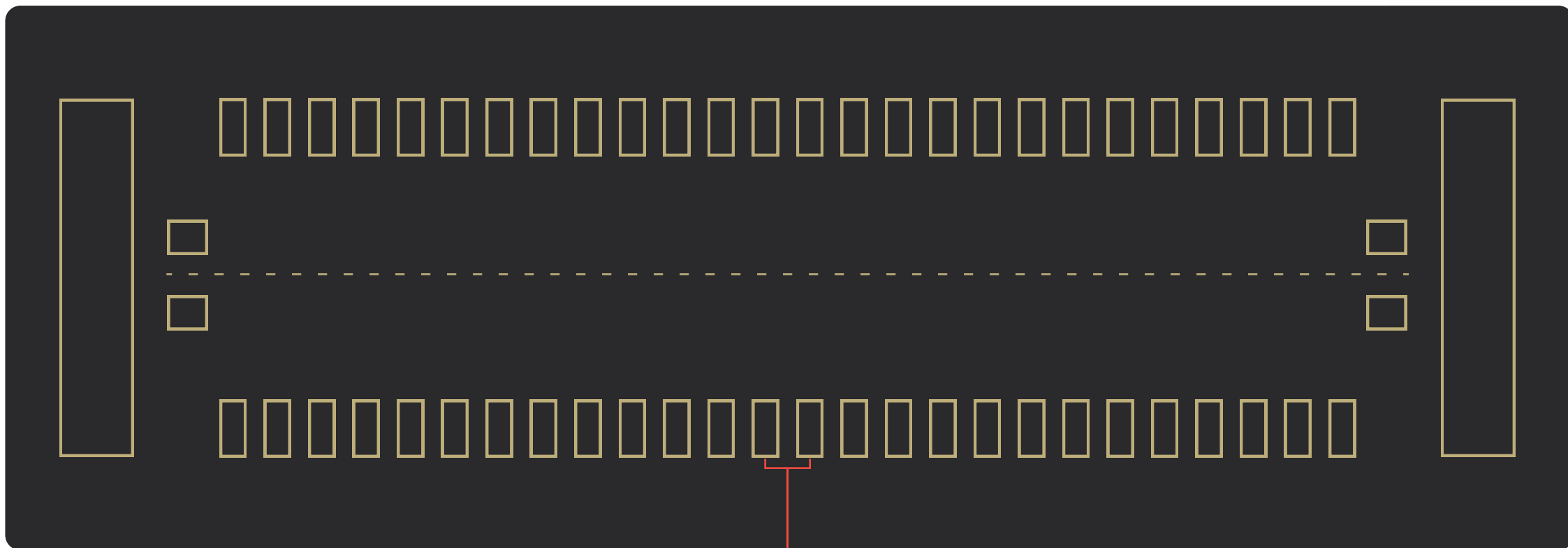
[Are you facing challenges with designing a 4-Row PCB? →](#)

The 4-Row connector reduces the SMT footprint by 22 percent compared to a 0.3 mm pitch product. A reduced footprint also means less wasted space and improves the efficiency of your designs.

2-Row 0.3mm pitch 52pin



10.7mm

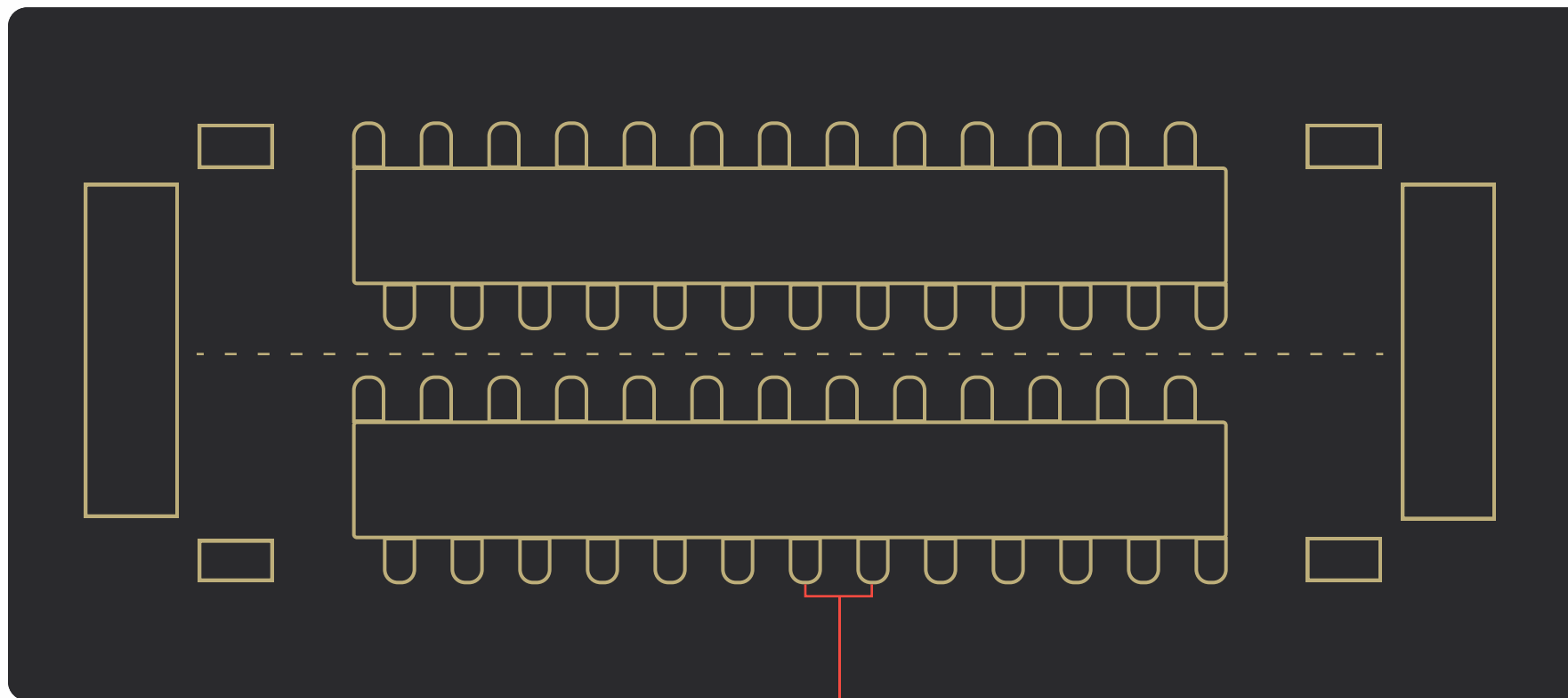


0.3mm  
Solder pad pitch

4-Row 0.175mm pitch 52pin



8.38mm



0.35mm  
Solder pad pitch

Saving Space  
**22%**

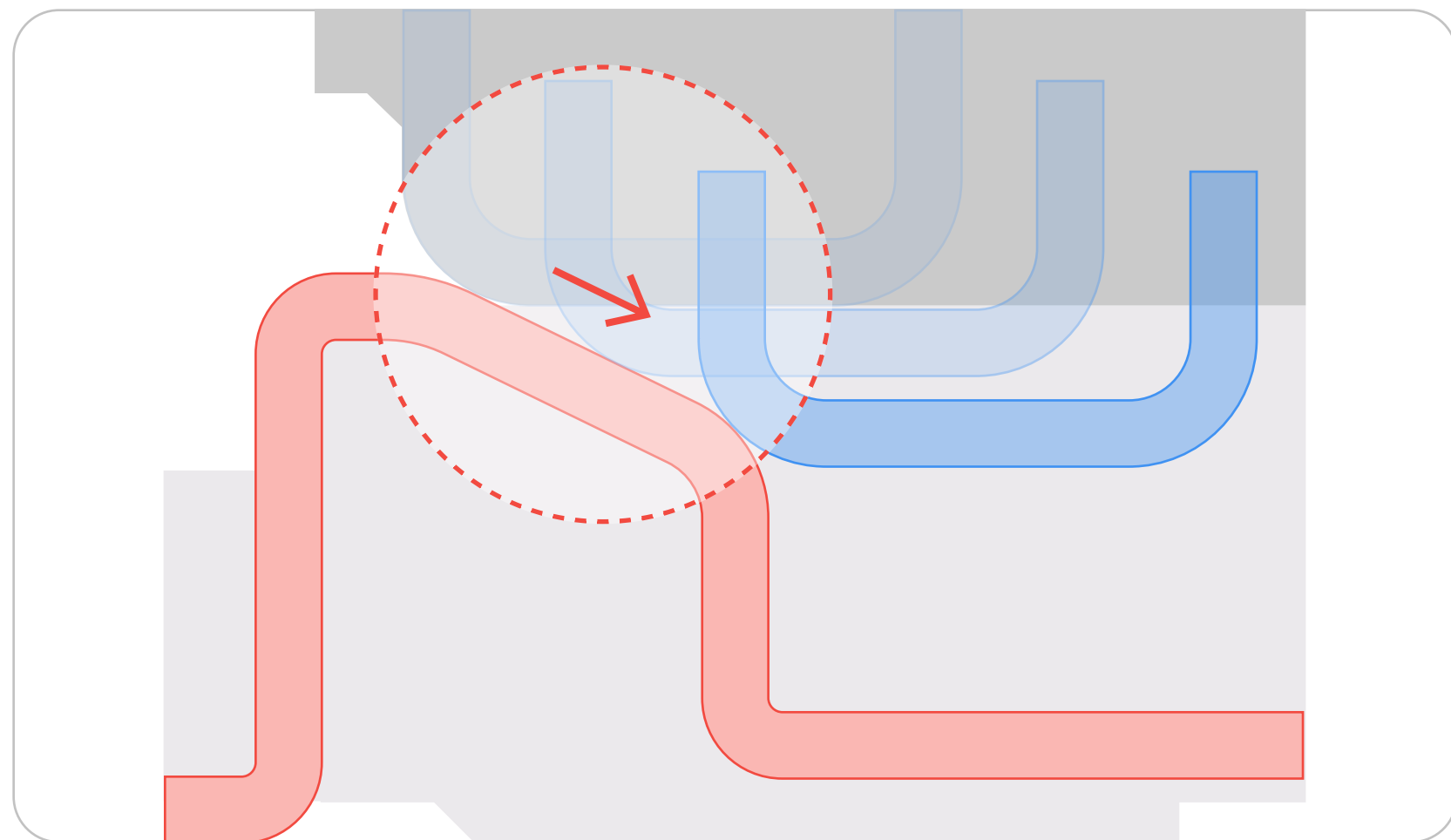


# IMPROVED WORKABILITY

We have received feedback from customers that it is difficult to match parts when assembling products. In response, UJU developed a new Ez Mating™ design technology for operating efficiency. Ez Mating™ design technology brings several benefits that make it a game changer in product assembly:

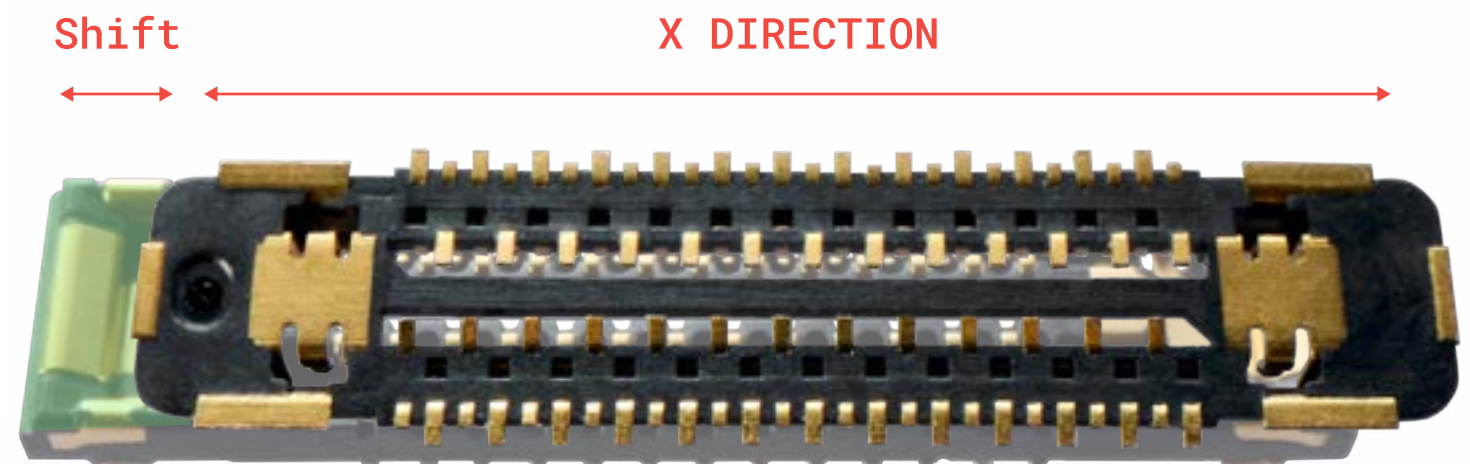
## EZ Mating™ Contact System

1. Increased assembly speed: With parts that naturally fit together, the assembly speed is significantly boosted.
2. Reduced error rate: The Ez Mating technology reduces the chances of mismatching parts, thereby reducing errors.

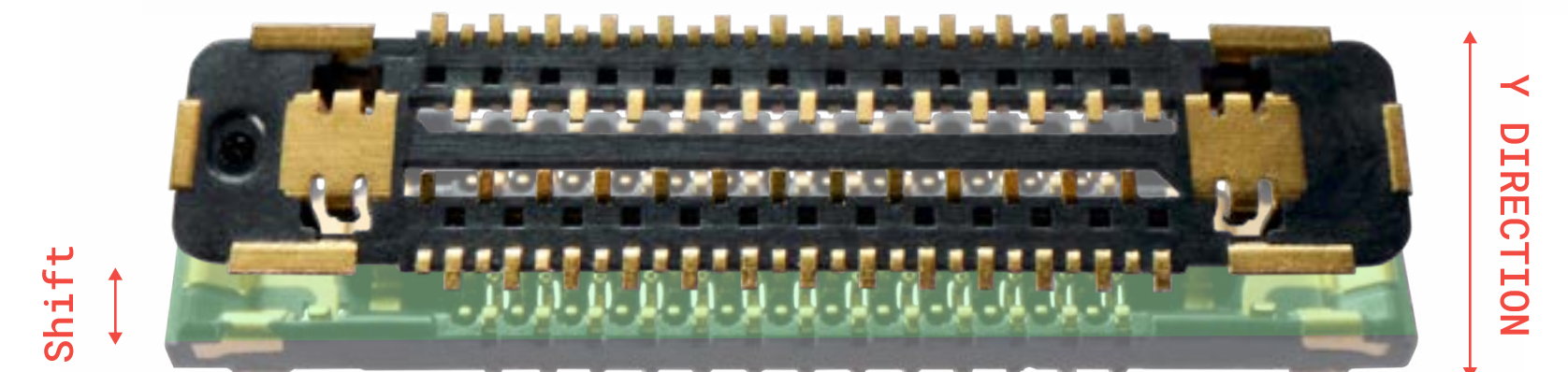


## SHIFT MATING

### X DIRECTION SHIFT



### Y DIRECTION SHIFT



# PRODUCT RELIABILITY & APPLICATION EXPANSION

UJU increases the number of power contacts from two to four to enable more reliable matching. Furthermore, by increasing the output power from 3.0A to 4.0A, this product can be used in more devices. The concept of limited space and complex environments that were previously difficult to implement is now fully possible.

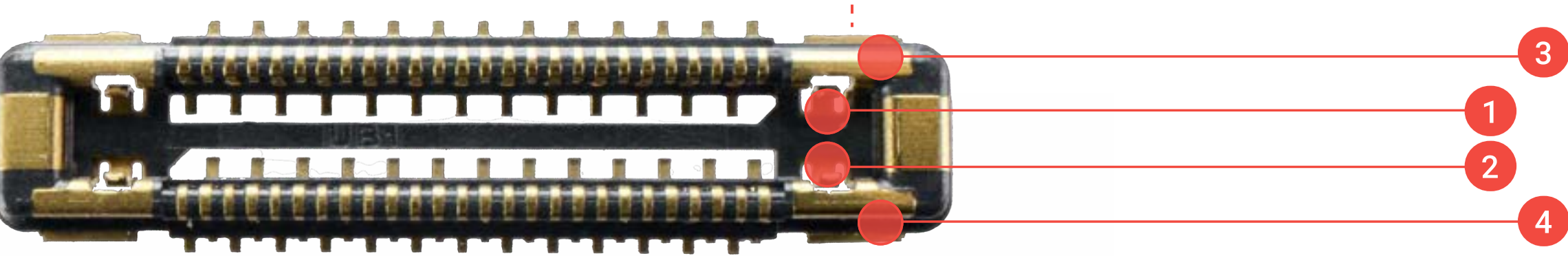
Power 3.0A > 4.0A

Ensuring contact stability with four applied contact points.  
This solution is capable of being utilized up to and including 4.0A.

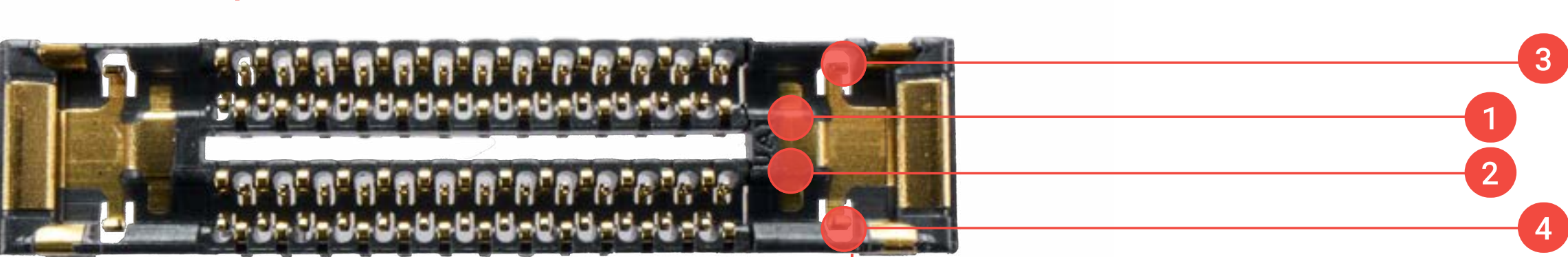


## Power Contact

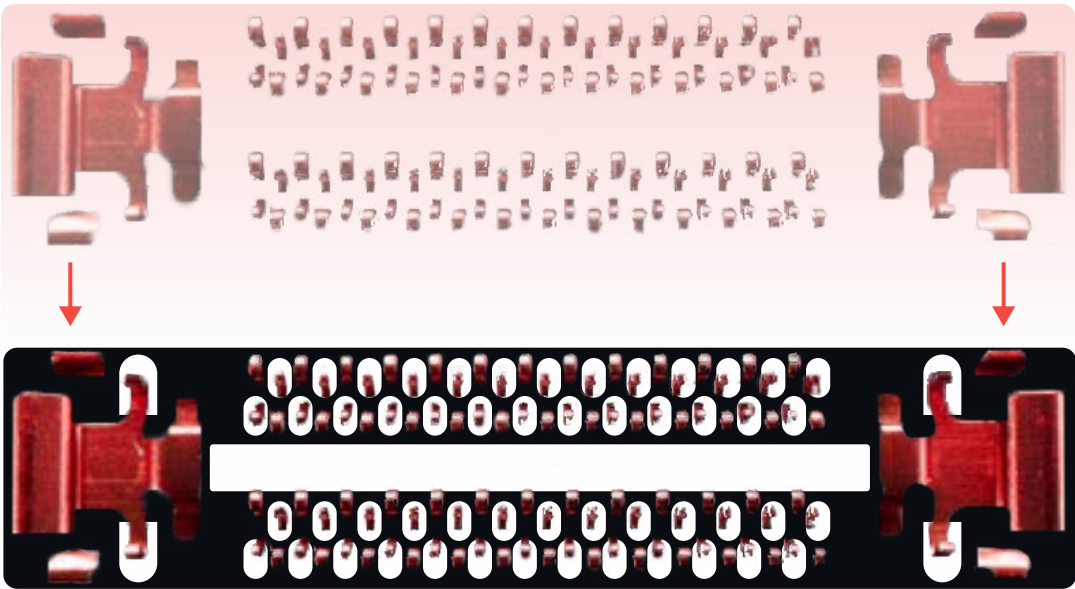
4-Row Plug



4-Row Receptacle



**Max. Strength**  
Full-Insert Robust Structure





# DOWNLOADS

4-Row Specification	<a href="#">↓</a>
4-Row Product drawings	<a href="#">↓</a>
4-Row Packaging drawings	<a href="#">↓</a>
4-Row Datasheet	<a href="#">↓</a>
4-Row REAL SIZE	<a href="#">↓</a>





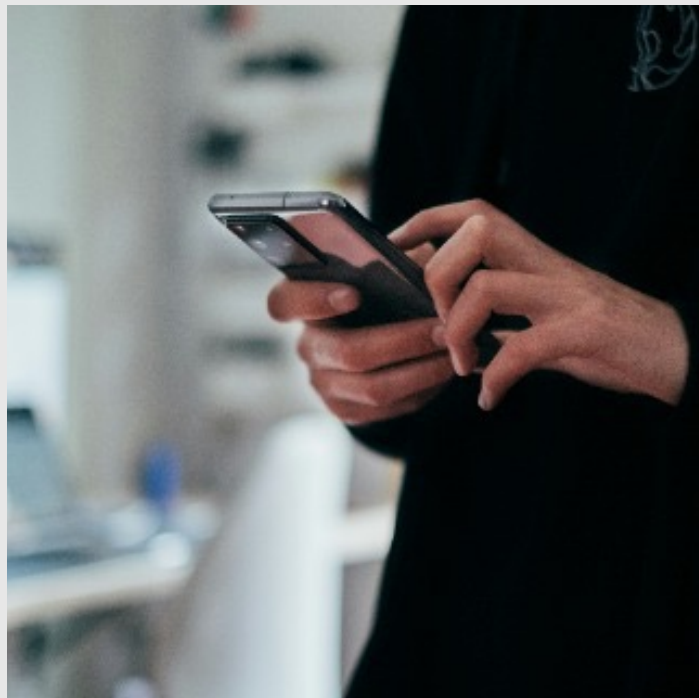
# TEARDOWN & PRODUCT DATA

In our Product Analysis section, we take a closer look at the design and performance of various devices. This will help you understand why certain components are used and how they contribute to the device's overall functionality. Sometimes, you need more information to fully grasp a product. That's why we've prepared additional data for you. Just click the 'Data' button below to access detailed technical specifications of our products.

[Tear Down](#) →

[DATA Down](#) →

## TearDown Applications

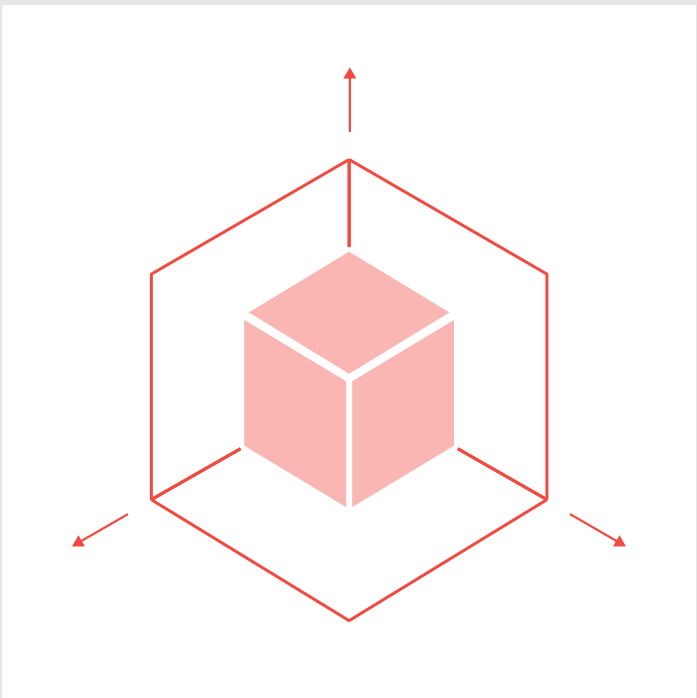


Smartphone



Wearable Watch

## Data Materials



3D

