

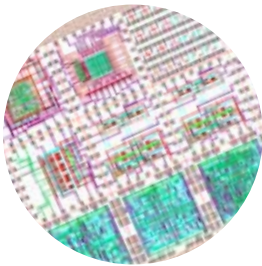
**PragmaticIC<sup>®</sup>**

**Flexible integrated circuits to inspire innovators**

# Create more

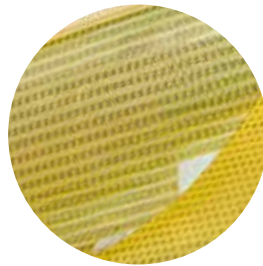
## **Designs**

**FlexIC Foundry<sup>™</sup>**



## **Devices**

**FlexLogIC<sup>®</sup> fab**



## **Connectivity**

**ConnectIC<sup>®</sup> family**



**PragmaticIC's unique, patented technology platform opens up the opportunity to invent entirely new applications for electronics.**

### Create more **designs**

PragmaticIC's FlexIC Foundry<sup>™</sup> service is the first in the world to allow innovators to design custom flexible integrated circuits (FlexICs) that are thinner than a human hair. Our pioneering unique technology enables the rapid turnaround of new designs and prototypes at a low fixed cost. This combination allows designers to iterate and test their creations within weeks, accelerating the development cycle.

### Create more **devices**

To enable fast, cost-effective and scalable production, we have developed our FlexLogIC<sup>®</sup> system for FlexIC manufacturing. This ground-breaking "fab-in-a-box" delivers high throughput at 100x lower capex than a silicon fab. FlexLogIC produces billions of FlexICs per annum with a cycle time of less than 24 hours. Compact, self-contained and highly automated, it provides a disruptive approach aligned to just-in-time delivery of mass market volumes.

### Create more **connectivity**

Our ConnectIC<sup>®</sup> family is our first flexible integrated circuit (FlexIC) standard product offering – the ideal solution to add connectivity to everyday objects. Designed on our unique technology platform to achieve the ultra-low-cost price point required to add intelligence to products in a wide range of markets, including food and beverages, personal and home care, pharmaceutical and healthcare, toys and games, and more. Applications include supply chain traceability, authentication and customer engagement.

[www.pragmaticsemi.com](http://www.pragmaticsemi.com)



## ConnectIC family

- ❖ Ultra-low cost
- ❖ Thin, flexible and robust
- ❖ Fast read times
- ❖ Customisable data format
- ❖ Suitable for paper or plastic inlays
- ❖ Easy to integrate, compatible with industry standard inlay assembly tools

## ConnectIC applications

- ❖ Supply chain traceability
- ❖ Hierarchical identification
- ❖ Authentication
- ❖ Provenance
- ❖ Grey market prevention
- ❖ Consumer engagement

## FlexIC Foundry

- ❖ Flexible ICs with approx. 30µm thickness
- ❖ PDK compatible with industry standard EDA tools
- ❖ Device library including transistors, resistors, capacitors
- ❖ Four metal layer stack for efficient interconnects
- ❖ Growing standard cell library
- ❖ Low NRE and fast production cycle time

## FlexLogic fab

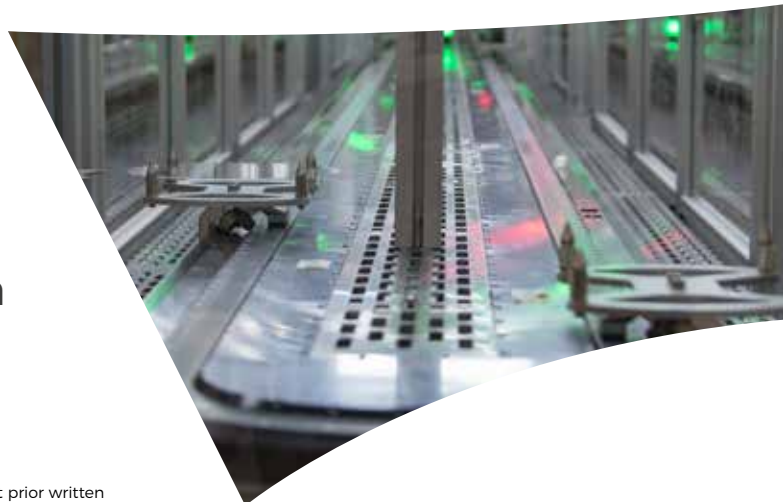
- ❖ Self-contained and fully automated
- ❖ Billions of FlexICs per annum
- ❖ 100x lower capital investment than silicon fab
- ❖ 100x smaller footprint than silicon fab
- ❖ 100x faster production cycle than silicon fab

PragmatIC is headquartered in Cambridge, UK, with a billion-unit production facility in NETPark, Sedgefield. Shareholders include Cambridge Innovation Capital, Arm and Avery Dennison.

## Learn more about PragmatIC

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