



CAPABILITY

Flexible hybrid electronics

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We guide you through the design, manufacture and testing of your products and processes, enabling you to develop, prove, prototype and scale up the next generation of flexible hybrid electronics. Our experienced electronics engineers, scientists and strategists can support you from early concepts through to the commercialisation of your innovative products and applications.

Specialist printing for flexible hybrid electronics substrates

We can assist you with the production of flexible circuit boards which can be used in roll-to-roll manufacture, making use of a number of additive printing processes. We can produce thin and flexible circuits with copper tracks using our unique Inkjet Flex process, print metallic and non-metallic conductive inks using our flexographic, gravure or rotary screen press, or utilise digital approaches with our roll to roll inkjet process. We are also able to assist with the integration of circuits into alternative forms such as composites, vacuum or thermo-formed parts and injection-moulded components to enable structural electronics.

Wide ranging capabilities

Our world-class, unique capabilities allow us to offer end-to-end support for your project, from electronics design right through to prototyping and scale up of your electronics products. We can support you with the integration of energy sources, communications technology and sensors to create new products for wearables or the IoT. For example, we design and manufacture, in volume, products such as smart inlays or smart tags, for use in applications such as smart packaging.

Specialist integration and scale-up facilities

We have a range of advanced and industry-relevant integration facilities available, including a 1500m² world leading integration facility specialising in large area flexible electronics, sensors and IoT-related applications. We can combine flexible substrates with printed electronics and conventional electronics to produce highly functional, thin and lightweight electronic sub-systems and convert them into product at scale. This unique capability will enable you to manufacture your flexible electronic system at scale enabling you to prove its functionality with market seeding volumes.



IoT toolbox

At CPI, we have a range of expertise, facilities and equipment that allow the fabrication of devices for IoT applications. These devices can combine a number of functions such as sensing, energy source, processing power, and communications. We can work with you to understand your needs and then develop a solution for you bringing in components from our IoT toolbox to prove feasibility. We can then scale up your flexible electronic innovations proving manufacturability and reliability so that you can deploy within your market. Working with CPI, you can seamlessly accelerate your innovations to market and our experienced team will support you every step of the way.

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