



intelligence. insight. identification.

**INTELLIGENCE. INSIGHT. IDENTIFICATION.**

Pioneers in digital packaging, Origin have created Smart-i: Smart packaging technology to enable supply chain visibility and controlling counterfeit medicine products & patient information (inaccurate patient data/ feedback).

The technology is one of the world's most advanced anti-counterfeiting solutions, utilising patented, **perennial encryption** technology which prevents duplication and replication of data and heightens security to an unprecedented level.

Smart-i facilitates universal traceability of both product status and location, and enables control and across the supply chains and stakeholders. In the age of rich product data and insights – Smart-i generates and delivers crucial information to increase engagement with your product and brand.



Smart-i | PharmiTrack will allow you to track your individual product or BATCH

What insights might you gain if you were able to track your product through the supply chain?

What might it facilitate?

If you could identify the security status and location of your product remotely, at any time?

If you could communicate with patients personally, or your distribution partners – would it benefit your strategy?

PharmiTrack can provide you with accurate and necessary data and insights to project future volume, and new generate new projects. Data in today's global landscape is vital in ensuring that your product/ brand is sustainable and delivering its full value and potential.

And the PharmiTrack system is adaptable, allowing centralised changes: such as revoking or reinstating a batch, or communicating information to pharmacists or patients.

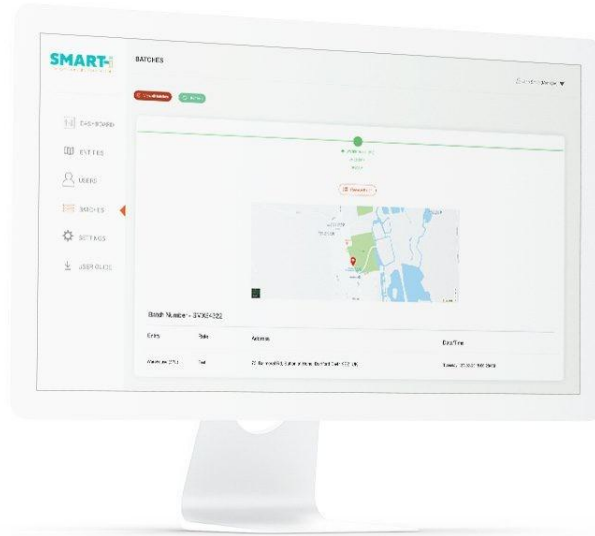
PharmiTrack is based around a central user interface combined with an integrated packaging chip, that allows control of a range of features. Within the comprehensive interface, each pack can be digitally tracked, enabling geographic control and monitoring.

The system is centrally controlled, and cloud based, providing inventory control and creating a centralised event log. Origin will securely host the service or ensure its installation to your own provision.

Used in an Over the Counter application, the packaging chip can be integrated in a seal, acting as a digital tracker, a tamper evidence device, and an anti-counterfeiting measure.

## Bespoke Central User Interface

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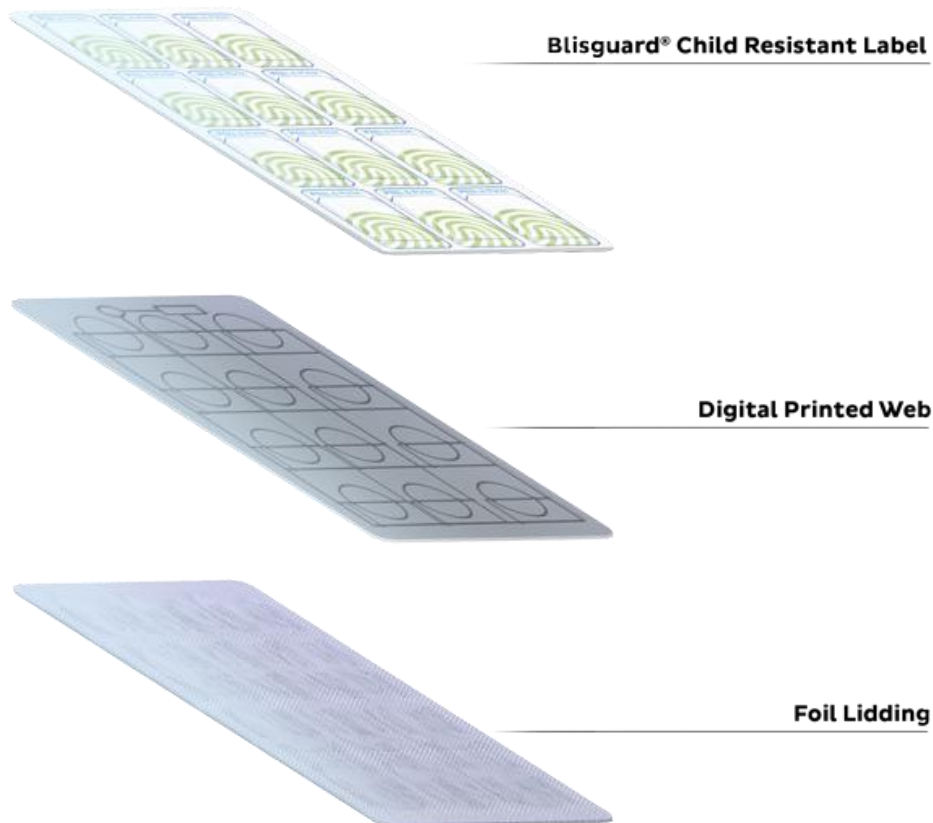
CliniWatch™ is a connected smart device system for better monitoring of clinical trial patients.

The recently developed CliniWatch™ has purposely been designed for the clinical trials remit of pharmaceutical drug development (phase III).

The Smart-I | Clinical Trials pack consists of the following components:

- CliniWatch™ | Wearable Device
- Intelligent blister pack

The smart wristband (Smart-i | CliniWatch™) is an original type of wearable device for tracking health information such as heart rate and pulse, temperature, blood oxygen levels, stress levels, breathing rate, different types of brain activity.





**Pharmaceutical Product**



**Plastic Blister Pack**

The bracelet acts as a personal assistant during the user's everyday life, monitoring the health status and alerting them about abnormal conditions, medication reminders, medication tracking and facilitating the everyday life in many outdoor and indoor activities.

The intelligent blister is chipped with a wireless electronic component that allows tracking of drug usage as soon as the tablet is ejected from the blister. The drug usage data is transmitted wirelessly to a wearable device as well as synchronised wirelessly with the Smart-i® mobile application installed on the smartphone – which is then sent to the client's clinical trial interface.



## PATIENT INTERFACE

Patient receives their medication and CliniWatch™ bracelet from the Clinical Trial administrators. (Instructions provided how to pair the bracelet with their phone if this link is actually needed) The blister packs have individual RFID tags over each tablet. Patient wears the bracelet which starts gathering data from the patient; pulse and temperature.

Each time a tablet is removed a signal is sent from the blister to the bracelet. Bracelet sends note to Clinical Trial Admin either directly or via phone to the cloud, then to host (CliniWatch™ , secure, dedicated servers or client's) advising pill taken and also sharing patient health data gathered.

Optional push-button feature on bracelet can transmit how patient is feeling at any time – the use of 'Smiley's' like happy, sad and unsure will be communicated from the patient, to the clinical trial team in real-time, to understand fully the effects of the drug when taken.

Data is analysed by Clinical Trial admin and message sent back to patient by whatever method is preferred by the patient.

## HOW DOES CLINIWATCH™ WORK?

Smart-i | CliniWatch™ is intuitive programme of technology that revolutionises how clinical trials are delivered. CliniWatch™ creates a secure, perennial encryption, two-way communication platform, not only with the actual patient but with the packaging too.

Find out more by downloading the Smart-I | Cliniwatch™ PowerPoint presentation, below:



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