

The top half of the image features a close-up of a hand holding a white, cylindrical pill. The background is a complex digital overlay with a blue and green color scheme. It includes a molecular structure on the left, a central industrial process flow diagram with pipes and tanks, and various data visualizations such as line graphs and bar charts. The Siemens logo is prominently displayed in the upper left corner.

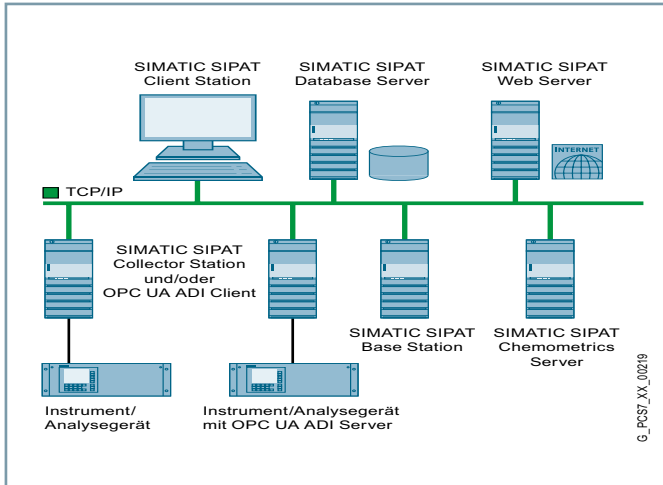
SIEMENS

PROCESS INSTRUMENTATION

Stay competitive with digital solutions

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Pharmaceutical companies face many challenges when it comes to producing the drugs people need with high efficiency. The demand for personalized medicine is growing as the population ages and the occurrence of chronic diseases increases. However, personalized medicine leads to increased small batch production which presents challenges to maintaining operational efficiency. Paperless manufacturing promises greater efficiency in pharmaceutical production, but pharmaceuticals must ensure continued compliance with regulations. Digital transformation is essential to facing the challenges of today's chemical market, and Siemens has the technology and digital know-how necessary to enhance your competitive advantage.



SIMATIC SIPAT distributed architecture diagram



SIMATIC PCS 7 has everything you need to completely and safely automate your entire production process.

Partner with Siemens to achieve faster time-to-market.

The market for personalized medicine is expected to grow to more than \$2.7 trillion dollars by 2022. Rapid growth in personalized medicine presents opportunities for companies that can manage the processing of multiple small batches efficiently. Our electronic batch record offering, SIMATIC IT eBR, is a solution that will help you quickly execute batch reviews and releases while exceeding regulatory compliance. Another solution we provide to help shorten your batch processing times is SIMATIC SIPAT, which links process analyzers with a central data hub for data mining and analysis. We will partner with you to identify the best solution fit possible to help you achieve faster time-to-market, higher yield and improved production quality so you will be able to better capture growth in the market for personalized medicine.

Choose end-to-end digital solutions to harness the benefits of paperless manufacturing.

Paperless manufacturing relying solely on automated data capture is considered a major objective of pharmaceutical companies looking to improve efficiency and reduce cost. However, a paperless manufacturing environment cannot be simply achieved with add-ons to existing applications or systems. A complete change in the execution of manufacturing process is necessary to harness the full capabilities of paperless manufacturing. Our SIMATIC IT eBR is designed to ensure data is in sync with the MES, automation and enterprise planning resource systems so that your data is reliable for collaboration and decision support. Siemens offers solutions that will assist your company with end-to-end implementation of digital solutions that will help deliver the next level of productivity through paperless manufacturing.

Protect against price pressure with IIoT.

With legislation threatening to push drug pricing down, profitability is at stake. One solution is cloud IIoT (Industrial Internet of Things) platforms such as Siemens Insights Hub, which enables your company to use data from opera-

tions for analytics and data mining. With analytics, you can reduce downtime by predicting maintenance issues and prescribing the best course of action. Additionally, the open infrastructure of Insights Hub allows you to create your own apps to further improve operational efficiency and reduce cost.

Choose Siemens as your partner for digital transformation.

Changing market conditions present many obstacles for pharmaceutical companies, and we are ready to help you tackle them. Our digitalization consultants will work with you wherever your company may be along the path to digitalization to develop a digital roadmap that will help reach your goals. Partner with us today and achieve the next level of productivity with Siemens.

Legal Manufacturer

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