The right medication at the right time: Ensuring patient adherence through IoT

Application Note

The Company

Information Mediary Corporation (IMC) develops low-cost, single-chip RFID and NFC sensor technology, readers and printed electronics in strict validation to ensure these products exceed pharmaceutical and logistics standards. The company's intelligent devices include the award-winning Med-ic® and eCap™ electronic compliance monitors (ECM©). ECM address the problem of poor patient adherence by monitoring medication taking behaviour in real time.

The Context

Patient non-adherence to prescription medication is a costly global issue. The National Pharmaceutical Council, an industry research organization, estimates the cost for non-adherence adds more than US$400 billion to the U.S. health care system alone.

The Product/Application

IMC's ECM product line, the Med-ic Syringe Pack, knows when medication is removed by the patient, and more importantly, when **not.** The Med-ic Syringe Pack records the real-time information when each syringe is removed from its package, logs the injection points, and lets the patient know if there was a breech in temperature, with a visual YES or NO display.

This innovative IoT package is connected via NFC smartphone or an even more secure dedicated CertiScan RFID reader. Package status and item/dose removal histories are stored in a secure HIPAA cloud. All components, software and data repository technologies are fully compliant with pharmaceutical standards such as GMP, HIPAA, CFR21Pt11 and produced under ISO9001 certification. Systems are validated according to ISO13485:2016, and devices certified to FCC/CE.

The *Med-ic Syringe Pack* can also be equipped with Bluetooth and integrated with health care connected-home systems such as Google Home and Amazon Echo.

For more information

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