

Toshiba branches out into the healthcare industry with innovative wearable technology that patients can use to monitor their own health.

Business challenge

With only 1.7 doctors for every 1,000 people in Taiwan, healthcare is in short supply. The Taiwanese government is seeking to increase care accessibility by creating 2,500 new care facilities over four years. Expanding into the healthcare industry, Toshiba wants to help streamline healthcare services by providing personalized care to more people using fewer resources.

Transformation

Working with IBM and IBM Business Partner Microtime Computer Inc. to create a hybrid cloud, Toshiba combines cognitive computing and Internet of Things (IoT) technology to help patients with non-acute heart conditions monitor their health. Patients wear a wristband and chest strap equipped with a Toshiba System-on-Chip (SoC) that uses biometric sensors to automatically collect heart rate and blood oxygen readings. Caregivers can then monitor the data remotely, reducing reliance on highly trained doctors for routine readings.

Expected benefits

Will increase availability and quality of healthcare with the possibility for caregivers to remotely monitor at-risk patients

Can reduce future costs and time associated with preventing and treating heart disease so that doctors can focus on critical cases

Will unlock the potential for new opportunities within the growing healthcare industry

Toshiba Electronic Components Taiwan Corp.

Revolutionizing personalized healthcare with a hybrid cloud solution from IBM

Toshiba Electronic Components Taiwan Corp., a subsidiary of Toshiba based in Taipei, Taiwan, manufactures a wide range of semiconductors and storage products, integral components in such everyday technologies as smartphones, automotive applications and medical devices. The subsidiary also works closely with original equipment manufacturers (OEMs), original design manufacturers (ODMs), value-added resellers (VARs) and fabless chip companies to create innovative technology solutions.

Solution components

- IBM Cloud
- IBM® Cognitive Business™
- IBM Watson®
- IBM Watson IoT™
- Microtime Computer Inc.

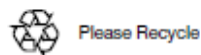
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