

應用案例

# 不只有機 蔬菜更要食得明白 有機農場的數位轉型



## 背景說明

該溫室農場主旨提供有機蔬菜及推動改善環境生態之事業。目前規劃產品發展，除了不斷精進改良並推出可適合所有農產品生產過程所需的有機栽培產品，包括有機質肥料、液肥、防治資材等外，同時也積極投入利用有機農法生產符合要求之農產品，為消費者的健康提供安全的保障。

## 挑戰

該溫室農場為求提供蔬菜最適合的生長環境，溫室中的溫度、濕度、照明度、酸鹼值(pH值)成為噴灑營養劑的根據，達成品質均一性和穩定性，進而達成最佳產能及效率。溫室農場業主管理溫室內50個土壤測試儀，並且需要24小時隨時監控，溫室農場期望藉由智慧溫室農業自動化監控系統，以取代大量人力及立即反應的能力，因此需要一套可串接各種類型感測器、擁有收集和傳輸資料到維運管理平台的物聯網閘道器。

## 解決方案

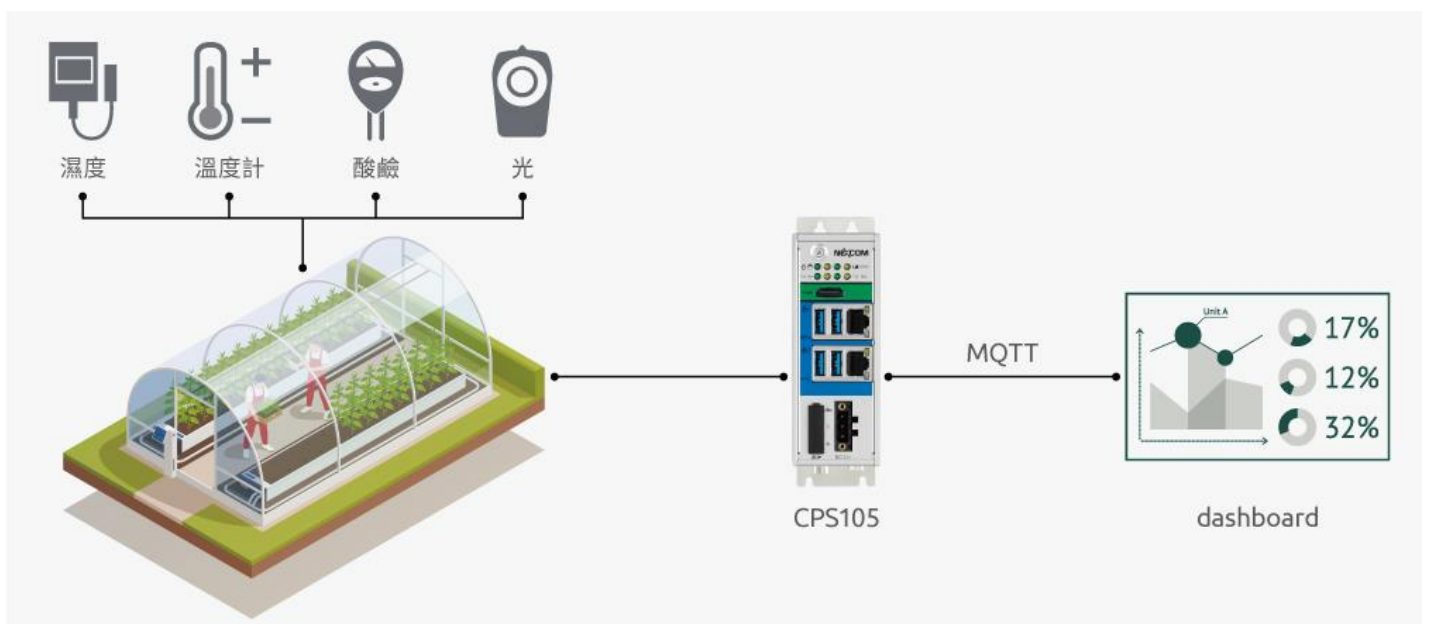
-物聯網閘道器: 新漢智能CPS105

新漢智能CPS105閘道器可串接土壤測試儀，即時接收數據包含溫度、濕度、照度、pH值，並經由MQTT傳送資料至維運管理平台，零時差控管農場狀態。

## 成果及效益

溫室農場業主管理透過CPS105連接溫室廠區的50個土壤測試儀，將溫度、濕度、照度、pH值以時間戳記方式記錄參數，並提供使用者以瀏覽器方式提供監測這50個土壤測試儀。除了內部管理，更可作為產品的履歷追蹤，讓消費者更能食的安心。

CPS105不僅可記錄土壤的環境數值，也可作為警報管理，即時將廠區狀態通知人員，以快速反應調整溫室的環境設定，並將每次的事件整理成歷史資料上傳至維運管理平台，以協助溫室農場業主提供蔬菜最佳的生長環境。





*Your Partner in Smart Manufacturing*

---

Incorporated in 2014 and is a subsidiary of NEXCOM Group (TWSE: 8234). NexAIoT is committed in innovating digital transformation to clients globally by providing one-stop Industry 4.0 solution services, which includes iAutomation, M2M Gateway, IoT Edge and Cloud-based Enterprise War Room of the Industry IoT ecosystem. NexAIoT has formed alliance with world renowned cloud service providers such as Microsoft, AWS, Google, Mindsphere and SAP. Its one-click to cloud gateway and edge computer have been officially certified by these organizations.

In addition to its own brand product, NexAIoT is able to provide tailor made ODM service for customers. NexAIoT is building Industry 4.0 OT/ IT information integration with ecosystem partners to co-create Industry Internet of Things alliance. We sincerely invite you to join the IIoT alliance team and enjoy a win-win result.

[www.nexaiot.com](http://www.nexaiot.com)



---

NEXCOM is an Associate member of the Intel® Internet of Things Solutions Alliance. From modular components to market-ready systems, Intel and the 400+ global member companies of the Intel® Internet of Things Solutions Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics.

Close collaboration with Intel and each other enables Alliance members to innovate with the latest technologies, helping developers deliver first-in-market solutions.

Learn more at: [intel.com/iotsolutionsalliance](http://intel.com/iotsolutionsalliance)

Intel and Intel Core are registered trademarks of Intel Corporation in the United States and other countries.