Kaohsiung City Gets Smarter with IoT Connectivity

Chunghwa System Integration selects Allied Telesis for smarter IoT connectivity in Kaohsiung City.

Customer: Chunghwa System Integration Co., Ltd.,

100% owned subsidiary of Chunghwa Telecom Co., Ltd. (CHT)
Industry: Information Technology - **Location:** Taiwan

Kaohsiung is a large, modern metropolis in southern Taiwan. The second largest city in Taiwan, it boasts mountains, ocean, rivers and ports, as well as a rich culture and beautiful city-scape.

Population	Area	Population Density	Climate
2,770,000	2948 km²	941 people/km²	Tropical Monsoon

Building a Smarter city

Taiwan is at the forefront of technology, so when the time came for Kaohsiung City to change its network infrastructure, it wasn't just better management and reliability they were looking for. Building smarter cities by utilizing Internet of Things (IoT) technologies is a major goal for all today's modern countries. The cities of tomorrow will use Software-Defined Networking (SDN) to build smart applications that unlock value and reduce cost.

Kaohsiung City needed a future-proof solution, and SDN enables intent-based networking using programmability to ensure flexible and centralized management. The City wanted to install Smart street lighting: as well as providing illumination, Smart street lights incorporate nine other applications, including security cameras, vehicle identification, air quality and road-flooding sensors, electronic billboards for public notifications, a WiFi hotspot and more.

In harsh outdoor environments such as this, network devices must be not just reliable, but also built to withstand fluctuating environmental and weather conditions.

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> "Allied Telesis is the only vendor that has integrated OpenFlow in an industrial switch. Further, both legacy and OpenFlow-managed ports can co-exist on the same switch, so deployment and operational flexibility is guaranteed."
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> **Mr Bowen Huang**
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> *Department Manager, Chunghwa System Integration*

Leading the way with SDN

Chunghwa System Integration knew just the right company to go with–Allied Telesis is leading the market with products that use the OpenFlow protocol to enable SDN communication and management.

Allied Telesis ruggedized IE300 Series Industrial Ethernet Layer 3 Switches were designed specifically for enduring performance in harsh environments. These high-performing, cost-effective switches meet the most stringent requirements of today's industrial networks, delivering the performance and reliability demanded in the IoT age. With the added ability to provide electrical power for integrated digital services, the IE300 was the perfect fit for Kaohsiung City, ensuring a future-proof network.

Working in conjunction with the IE300, an Allied Telesis Ethernet Protection Switched Ring (EPSRingTM) provides high-performance connectivity with near-hitless failover for this large city-wide deployment.

About Allied Telesis

For nearly 30 years, Allied Telesis has been delivering reliable, intelligent connectivity for everything from enterprise organizations to complex, critical infrastructure projects around the globe.

In a world moving toward Smart Cities and the Internet of Things, networks must evolve rapidly to meet new challenges. Allied Telesis smart technologies, such as Allied Telesis Autonomous Management Framework™ (AMF) and Enterprise SDN, ensure that network evolution can keep pace, and deliver efficient and secure solutions for people, organizations, and "things"—both now and into the future.

Allied Telesis is recognized for innovating the way in which services and applications are delivered and managed, resulting in increased value and lower operating costs.

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