# +BY 2025...

60% of the world's population is expected to live in urban environments…a demographic trend that signals a societal change so remarkable, so transformative, that a new way of thinking has emerged – the **Smart City**.

Visionary leaders around the world are working to apply new thinking and new technologies to transform the cities of today and sustain the cities of tomorrow. Creating an environment that delivers a high quality of life for residents in the face of aging infrastructures, budget strains, and growing challenges in public safety, energy management, resources, and transportation is critical to making our cities an exuberant, vibrant, welcoming place to live and work.

Partnerships between public officials, private companies and the community itself are coming together to create thoughtful, innovative plans to harness data, integrate infrastructure improvements, efficiently manage resources and deliver a rich, rewarding experience for their citizens.

# +CONNECTED PLANET
## ENABLING SOLUTIONS

Our lives are networked like never before, supported by the machine and information networks working to gather, manage and transform operational data into better living.

We are B+B SmartWorx, powered by Advantech. We enable solutions that add new layers of sophistication to existing machine data networks and provide dramatic new capabilities that ultimately improve a network's efficiency and productivity. Our specialty is advancing secure connectivity at the Network Edge through the use of intelligent wireless and wired communication technologies.

Explore your opportunity with us. Working together to enable a connected planet.

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Powered by **ADVANTECH**

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Introducing
# SMART CITY

**B+B SmartWorx**
Powered by **ADVANTECH**

Intelligence at the Network Edge

# A **SMART** CITY IS A CONNECTED CITY

**Connectivity is a powerful concept. Intelligent Connectivity makes us all more efficient. More effective. Better.**

## + THE 3 PRINCIPLES OF A CONNECTED CITY:

**(1) Intelligence at the Network Edge**

The Network Edge is the point where Smart City systems meet the real world. B+B SmartWorx products enable networks to evolve into more autonomous, smarter, responsive and decisive systems.

**(2) Interoperability**

City infrastructures can date back decades or centuries. Bringing it all together in a modern network demands solutions that bridge time and technology. We help peel back the layers of complexity, simplify your connectivity stack, and make the potential of Smart City applications a reality.

**(3) Integration**

Successful integration allows enriched data to flow seamlessly and efficiently. In a Smart City, systems operate collaboratively, and adapt to integrate data from new sources. This collaborative "system of systems" delivers a secure, flexible, pragmatic network architecture that will continue to adapt and grow as does the city itself.

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|---|---|---|---|---|
| **Wireless Sensor Platform** | **Intelligent IoT Gateways** | **Smart Cellular Routers** | **Smart Switches** | **Wi-fi** |
| **Wireless Radios** | **Ethernet Extenders** | **Fiber Media Converters** | **Industrial USB** | **Serial Device Connectivity** |

## SMART CITY APPLICATIONS

Taxpayers, citizens, companies and visitors are all stakeholders in the investments made in Smart City programs for improved resource management, reduced energy costs, better environmental conditions, smoother transportation systems and more responsive public safety programs.

**SMART BUILDINGS**

Heating control, lighting control, security access

**SMART LIGHTING**

Public lighting with single light outage notification, sensor driven lighting levels for reduced energy consumption, LED lighting

**SMART FACTORY**

Industry 4.0, condition based monitoring

**SMART PARKING**

Access and control, automated payment systems, air quality/$CO_2$ monitoring, facility & multi-facility capacity management and real-time digital signage

**SMART ENERGY**

Advanced metering, real time sensor driven energy consumption management and control, and alternative power integration

**SMART TRANSPORTATION**

Better management of traffic signalizing systems, hazard notification, construction alerts, improved public transportation, alternative transportation like bike rental kiosks and electric car charging stations

**SMART WATER**

Improved water usage management, quality monitoring, leak detections, flood water monitoring, advanced metering, and compliance management