



## COMPANY PROFILE

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# GST

## AUTOMATION DEVICES & COMPUTEING

**For Over Than 10 Years GST** has enjoyed success as the solution Provider of industrial Automation to industry leading Companies in **Egypt & North Africa Region** One of our key strategic areas of focus has been and is the industrial Automation market.

Our organization works with many leading companies across a wide Range of applications including Oil and Gas, Power&energy , Factory automation Water/Waste Water, GSM, Food, Chemical, Cement,Buildings ,Military, Transportation and Education.Meanwhile we assumes the leadership in meeting the interconnect product includes MIL-spec and commercial options for connectors, accessories and cable assemblies according to customer request for military, aerospace, commercial aviation, medical, energy, industrial, oil & gas, transportation, telecommunications,automotive markets,Industrial and Telecom market segments in **Egypt & North Africa Regions.**

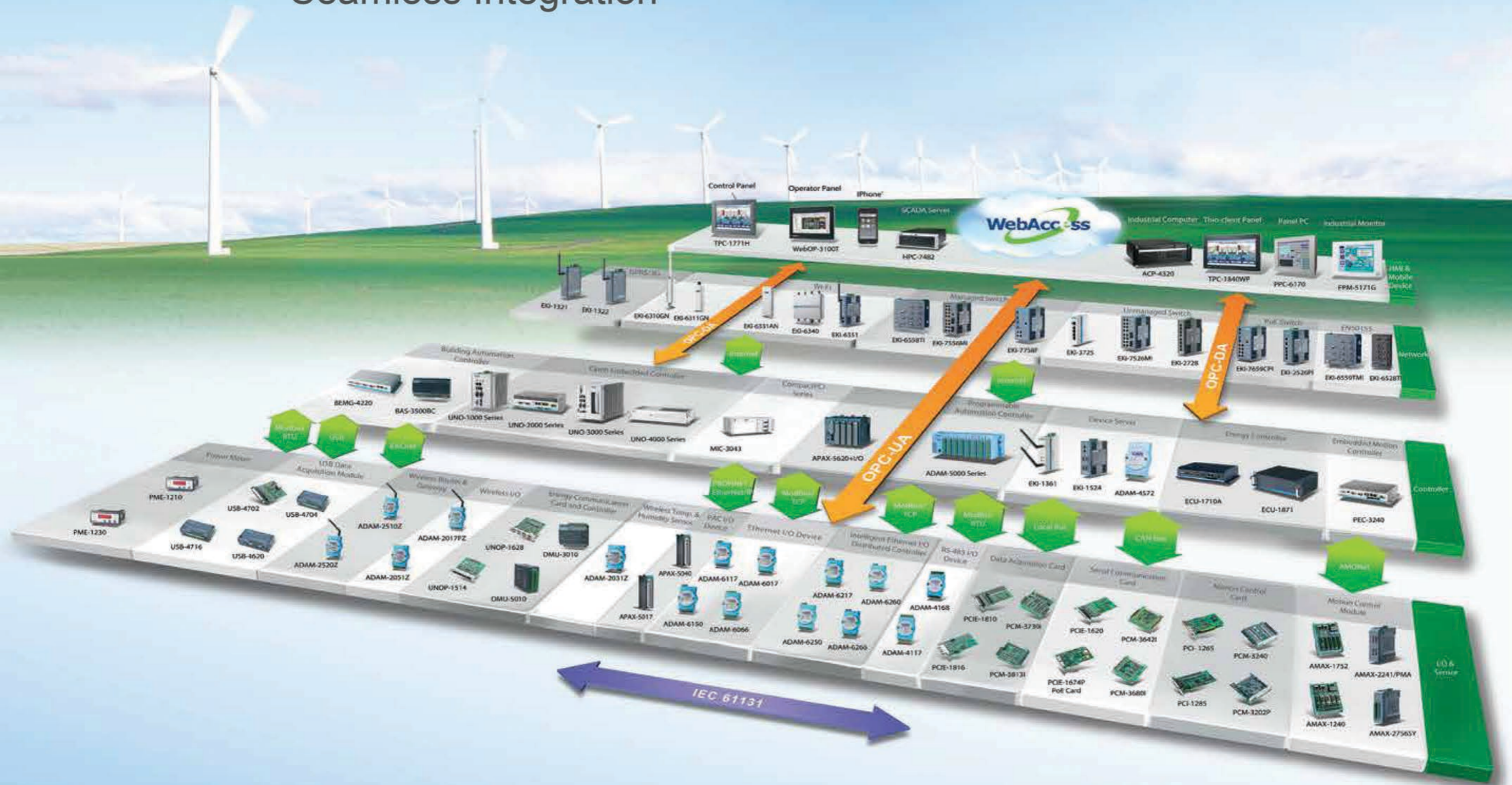
**Finally** we do our best to provide services and complete solutions on-time and within budget, that our customers need to be successful also providing all types of control & monitoring systems, as well as providing efficient , professional services for customer care , product selection , technical support, and order handling with the highest level of customer satisfaction to new & existing customers .

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

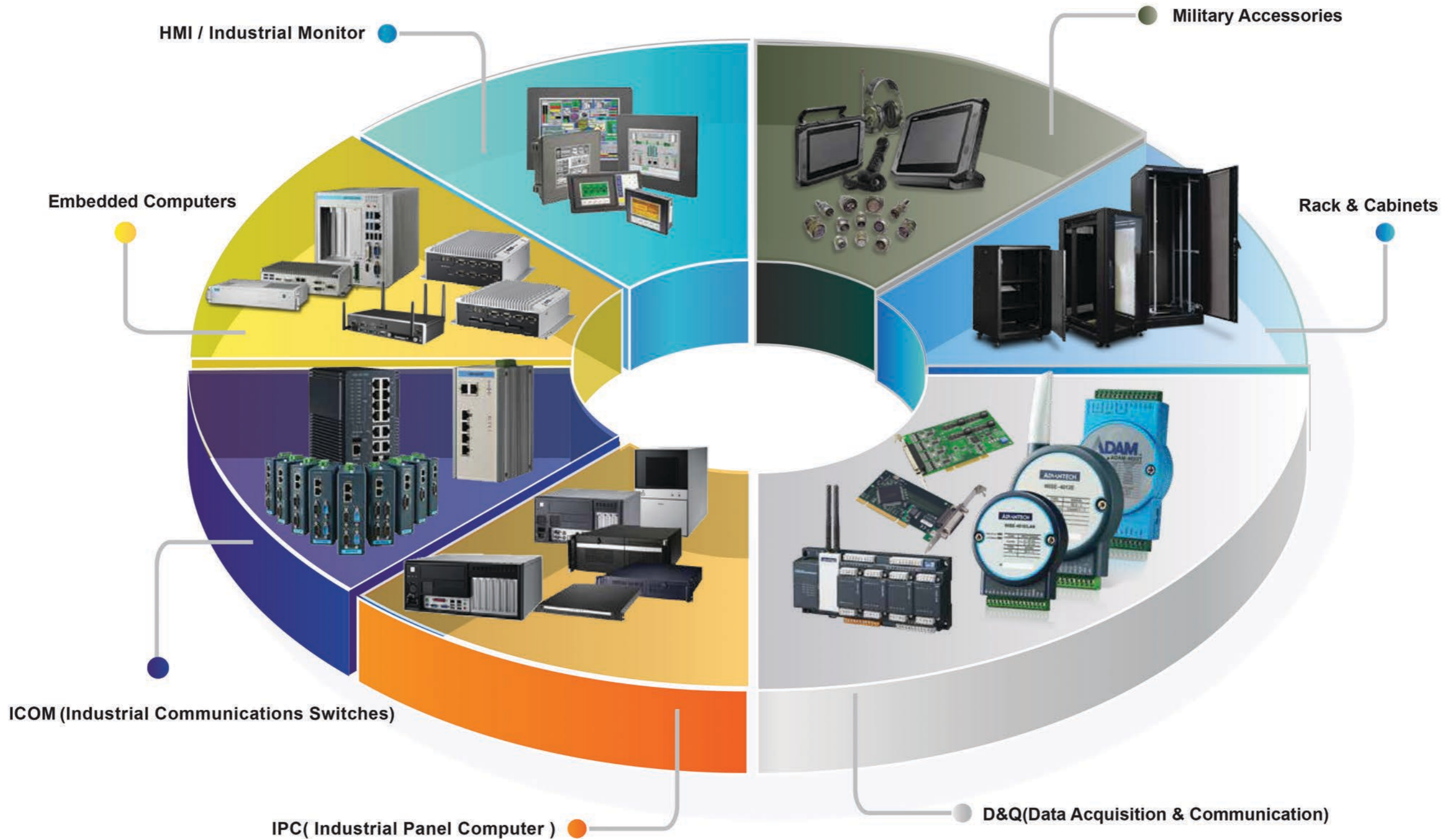
# INDUSTRIES SECTOR



# Intelligent Automation, Seamless Integration



# Product Portfolio



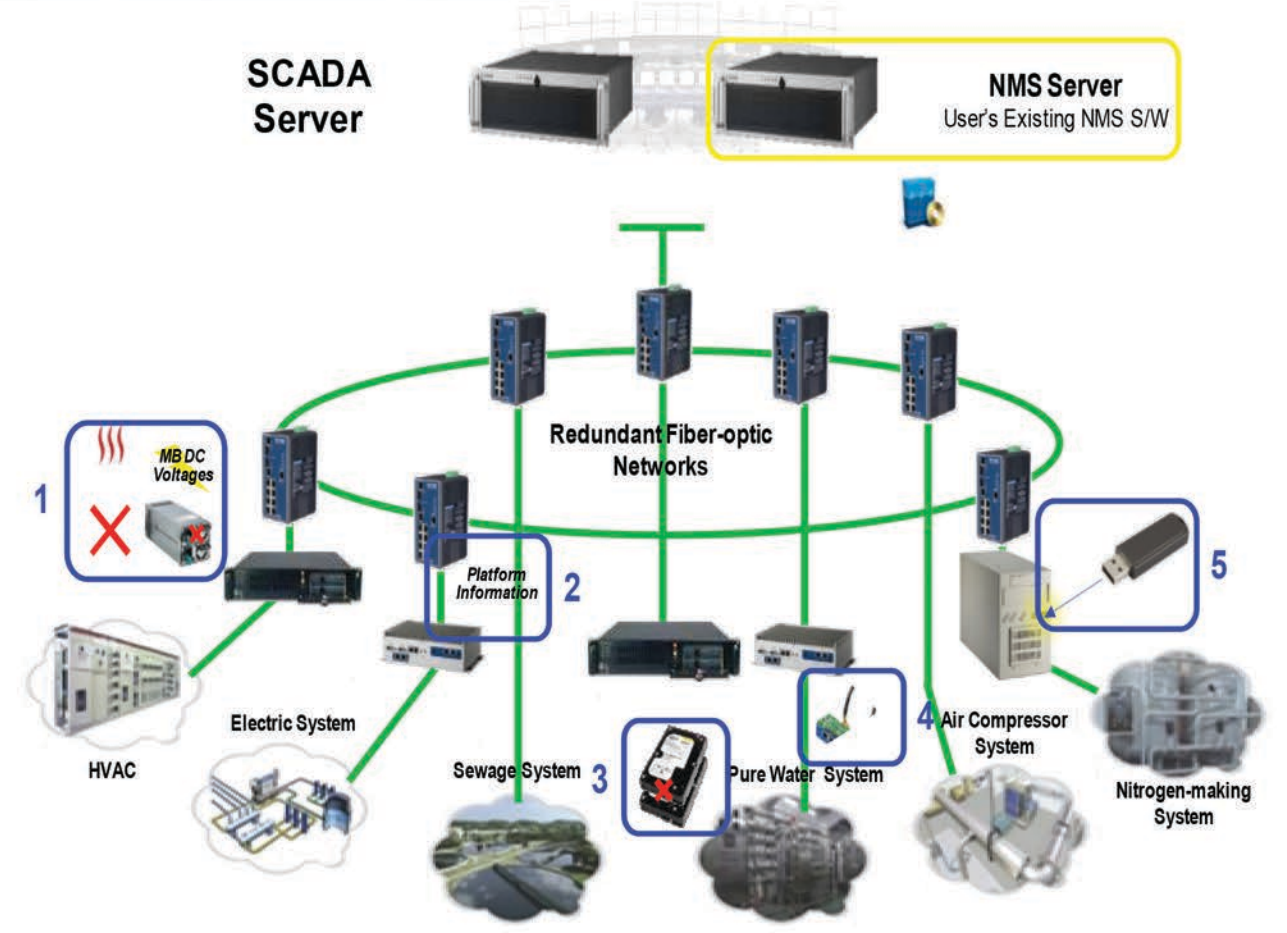


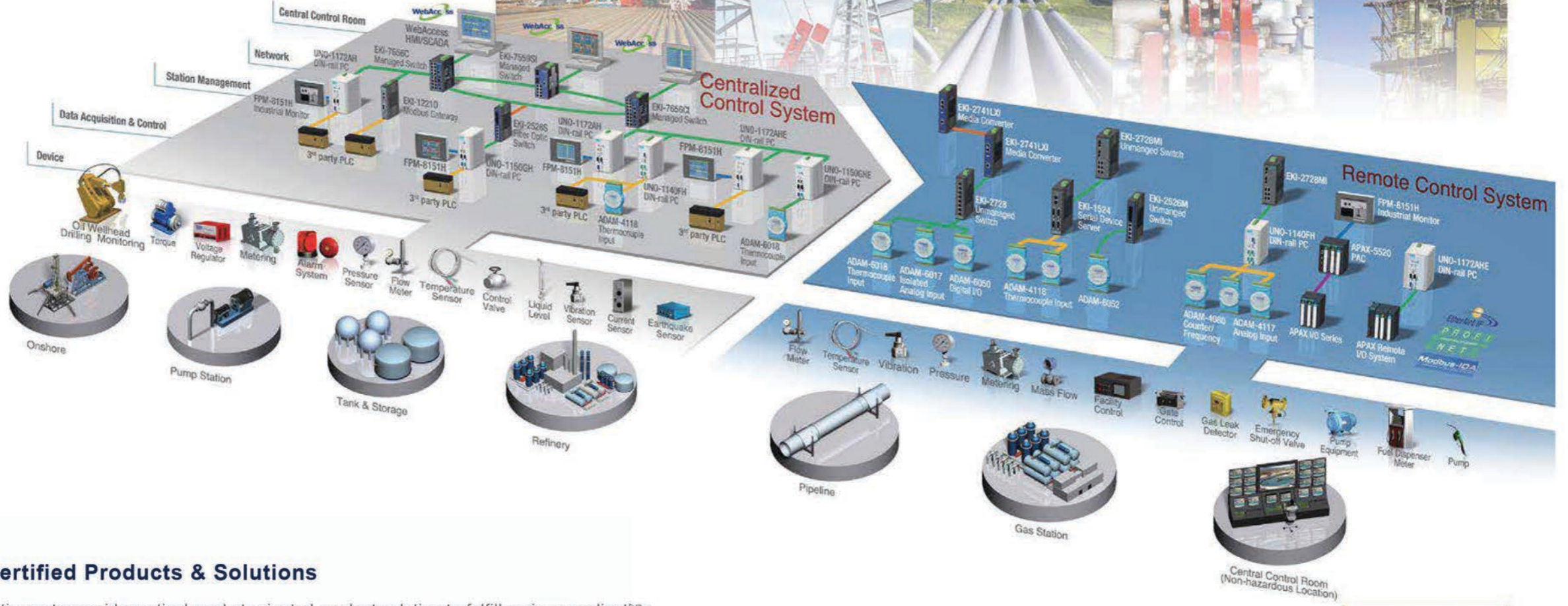
## Factory Automation



### A Customer Who Has Its Own NMS Integrates Advantech IPC With SNMP Sub-Agent Into The Industrial Network :

- IPC.Temp.,VOLTAGES , Fan Speed , RPS status are monitored, when the threshold is reached a trap is sent to NMS to alarm.
- IPC platform information- Product Name,OS Version/Release Date , Boot Count are retrieved & sent to NMS as device property.
- IPC Intel S/W RAID status is monitored, when RAID is degraded (HDD fails), a trap is sent to NMS; upon the defect HDD is replaced and RAID rebuild is finished, another trap is sent to NMS to tell RAID becomes normal.
- PCI /PCIe devices detection function allows user to check what devices including iDoor are installed in the IPC.
- Any H/W device inserted into or removed from the IPC triggers H/W insertion or removal trap, ex. when an USB thumb drive is illegally inserted a trap is sent to NMS to alarm.





**Our Certified Products & Solutions**

We Continue to provide vertical market-oriented product solution to fulfill various application needs. Our CID2 certified product offering includes; HMI, industrial Communication, Embedded Automation Computer, and data acquisition; HMI, Industrial Communication, Embedded demanding requirements of various and gas applications. Furthermore, Our standard product offerings can be used in non-hazardous location, such as facility control and management for the oil and gas industry.



Intelligent transportation System (ITS) aim providing communication and technology that allow safe, convenient, comfortable, efficient, and environment friendly travel for all commuters. Many cities worldwide are in the midst of improving their transportation system infrastructures, and Advantech is there to provide a helping hand, offering Advantech product solution for the freeway market segment including freeway entrance controls, traffic information system, tunnel monitoring system, electronic toll system, vehicle count & classification, and IP Surveillance.



## Freeway Entrance Control system

When moving cars enter the freeway, a coil loop and VD card collects the info and the PAC controls the traffic signal system, reducing traffic congestion in rush hours. Advantech's industrial Ethernet Media Converters are compact and robust devices designed to convert and transmit Gigabit Ethernet or fast Ethernet network into Gigabit or Ethernet fiber optic networks by transparently converting digital electric Ethernet singleton optical signals.

## Tunnel Monitoring System

This Freeway tunnel monitoring system utilizes a distributed network control architecture to manage the system, including traffic guidance, CCTV, fire alarm, and ventilating system while collecting several sensors, such as vehicle detectors, COVI Visibility, and wind sensors. The compact and high performance Ethernet switch provides a redundant network and connections.

## Real-time Traffic information Display System

Advantech offers total solutions of real-time traffic information Display System to accommodate different ITS needs, such as Ethernet switches, serial devices server, controller, data acquisition cards, and diversified communication cards. The system quickly and reliably sends traffic and weather information messages to an LED display.

**EKI-2541 / EKI-2741**  
Fast Ethernet and Gigabit Ethernet Media Converters

- EKI-2541 series 10/100TX to Single/Multi Mode SC Type Fiber Optic Industrial Media Converter
- EKI-2741 series 10/100/1000TX to Fiber Optic Gigabit Industrial Media Converter

**EKI-2000P / EKI-7000P**  
5/8/16-port Industrial PoE Switches with Wide Temp.

- Reliable solutions for networking, IP Cameras and wireless AP
- Guarantees reliable PoE networks with advanced management functionalities
- Only 24V<sub>DC</sub> is required for PoE operation with 24/48 V<sub>DC</sub> models

**EKI-1528 / EKI-1526**  
8/16-port RS-232/422/485 Serial Device Servers

- Device can be daisy-connected to Ethernet switches for unrivaled reliability
- Rich configuration methods including Window utilities, Telnet console and web browser
- Supports rich operation modes, such as COM port redirection, TCP & UDP server/client

**EKI-2525 / EKI-2528**  
5/8-port Unmanaged Ethernet Switches

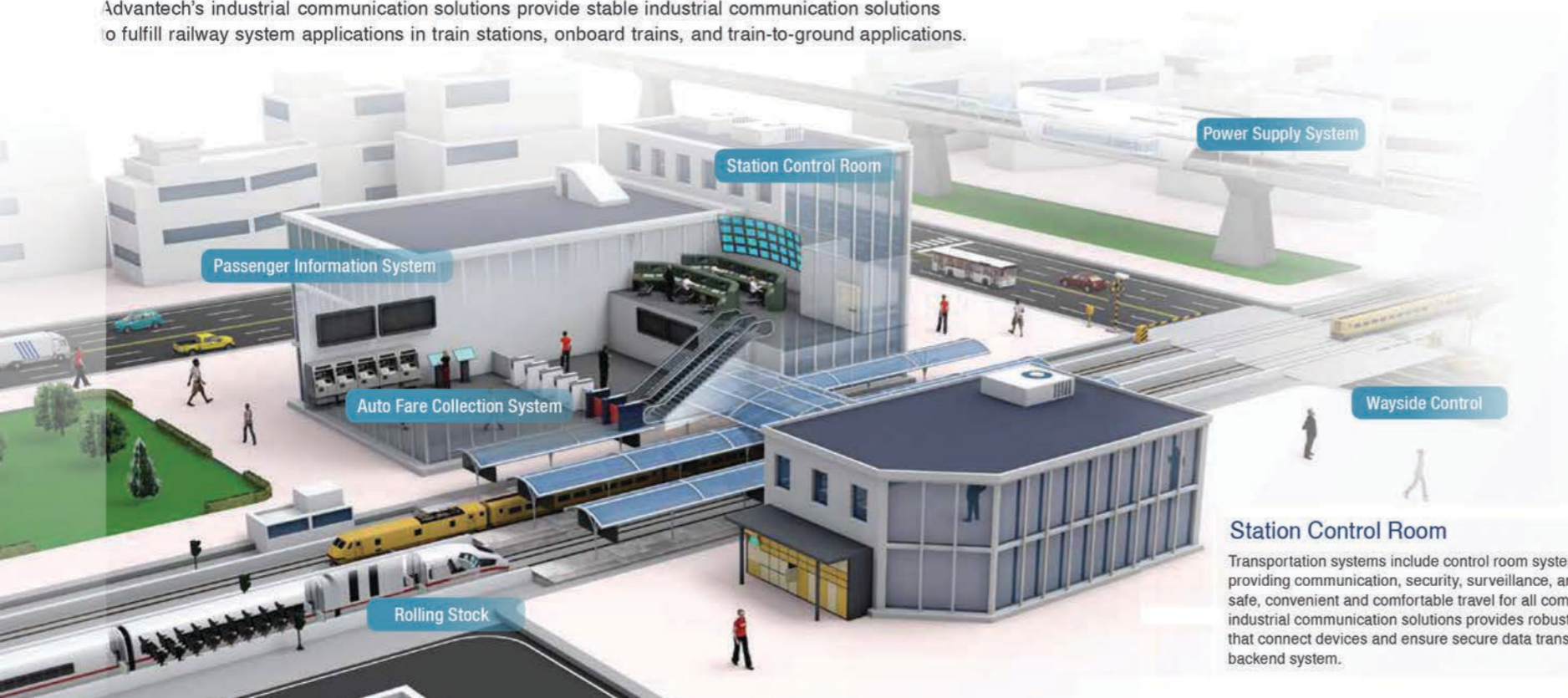
- Super slim IP30 metal casing provides reliable & compact management
- Advanced heat sink strong enough to operate in harsh environments
- Provides 3,000 V surge (EFT) protection & 4,000 V Ethernet ESD protection



# Railway Systems



The rapid acceptance of Ethernet-based networking in railway infrastructures provides many subtle benefits to traveler's worldwide. Industrial Ethernet backbones offer high bandwidth to enable many IP-based applications. Advantech's industrial communication solutions provide stable industrial communication solutions to fulfill railway system applications in train stations, onboard trains, and train-to-ground applications.



## Passenger Information System

Advantech WebAccess/NMS is designed with SNMP and ICMP communication standards for managing all Ethernet-enabled Advantech products and third-party devices. WebAccess/NMS can bring users an easy-to-use platform to monitor and manage networking remotely. WebAccess/NMS enables industrial grade centralized networking management.

## Onboard Train Communication

Advantech's EN50155 M12 Switch fulfills a wide range of applications in moving trains as it guarantees reliable performance under vibration and shock. For passenger information systems (PIS) this allows modules to connect with LCD and LED display boards which offer travel information, news and advertisements. For in-seat video entertainment systems (VES) this offers video monitors mounted on the back of every seat. And for IP surveillance this guarantees these devices can reliably connect with cameras for a variety of applications that provide increased safety and security.

## Auto Fare Collection System

In modern railway stations, automatic fare collection (AFC) systems include ticket vending machines (TVM), ticket checking machines (TCM), and gate control systems which require layer 2 and 3 switches that can ensure fast, reliable, safe, and redundant operation.

## Wayside Control

To control the trains from the wayside control cabinet, there are specific controllers including CBI, TCC, RBC, and TSRS to ensure non-stop operation. Advantech industrial Ethernet switches form a dual fiber optic ring network, and each controller is connected simultaneously to these 2 fiber rings. With Advantech's X-Ring Pro technology which ensures that a backup circuit is established in just 20ms to compensate for errors such as broken links, this comprehensive redundancy concept offers maximum possible security.



## Station Control Room

Transportation systems include control room systems aimed at providing communication, security, surveillance, and technology for safe, convenient and comfortable travel for all commuters. Advantech's industrial communication solutions provides robust Ethernet solutions that connect devices and ensure secure data transmission to the backend system.

## Power Supply System

Maintaining the accuracy of electric source switching for each rail track is a great challenge for operators. The power supply system in train depots requires communication products to control and monitor a mass of relays and to cover the entire area through optical fiber transmission. The solution contains traditional serial (RS-232/422/485) devices that transmit data over an IP-based network, with a redundancy assurance so as to leverage the peak performance of power supply system.

## Comprehensive Industrial Networking Solutions for Railway Systems

Rackmount Switch		EN50155 Switches			Industrial Ethernet Switches			Industrial Protocol Gateways		
										
EKI-9428G L3 Rackmount Industrial Managed Switch	EKI-9228G Rackmount Industrial Managed Switch	EKI-9512E EN50155 ETB Switch	EKI-9516P EN50155 M12 Managed Ethernet PoE Switch	EKI-6528TPI EN50155 Unmanaged PoE switch	EKI-7700 Series Industrial Managed Ethernet Switches	EKI-7700 Series Industrial Managed PoE Switches	EKI-5000 Series Viewable Unmanaged Ethernet Switch	EKI-1520 Series Rackmount Serial Device Servers	EKI-1520 Series Serial Device Server	VESP211 Ultra Compact Serial Device Server

# Temperature Monitoring System



## Project Introduction :

- The target of the project is monitoring the oven temperature during the test according to the international standards for measuring the oven performance.

## System Description :

- Its advanced and intelligent measurements system , you can select the test will be done according to which Standard and the number of sensors and their locations.
- The system can be divided to two separate measurement tools to test two separate ovens.
- All temperatures are displayed online on Graphs and Indicators during test , also data saved to excel sheet for history.
- The system can be calibrated by friendly software.
- Separate Software for Printing and Previewing the Test Report with all results.

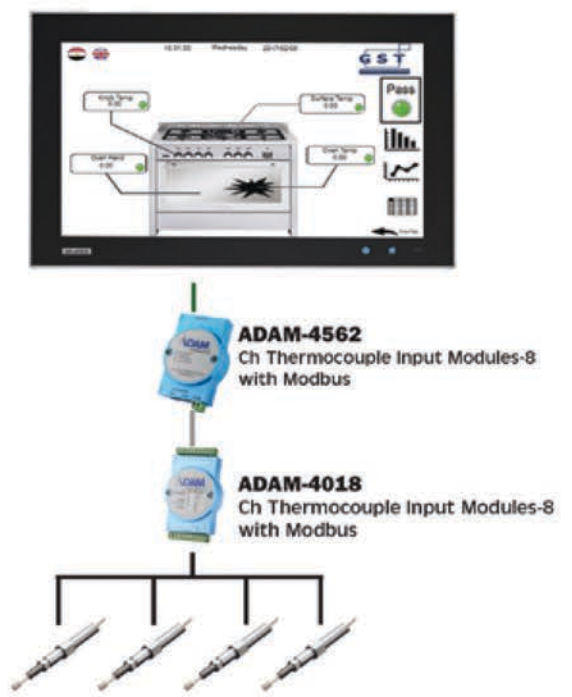
## Conclusion :

- By using this system, you will improve your products quality and Home Appliance Manufacturir
- Trusted and accurate reading without any human element in the measurements .
- Easy way for checking the test results at any time.
- Friendly Software.

## System Requirements :

- Accurate Reading.
- Online Measurements.
- Online Display.
- All Data saved in excel sheet.
- Multi Reading in the same time.

## System Diagram :

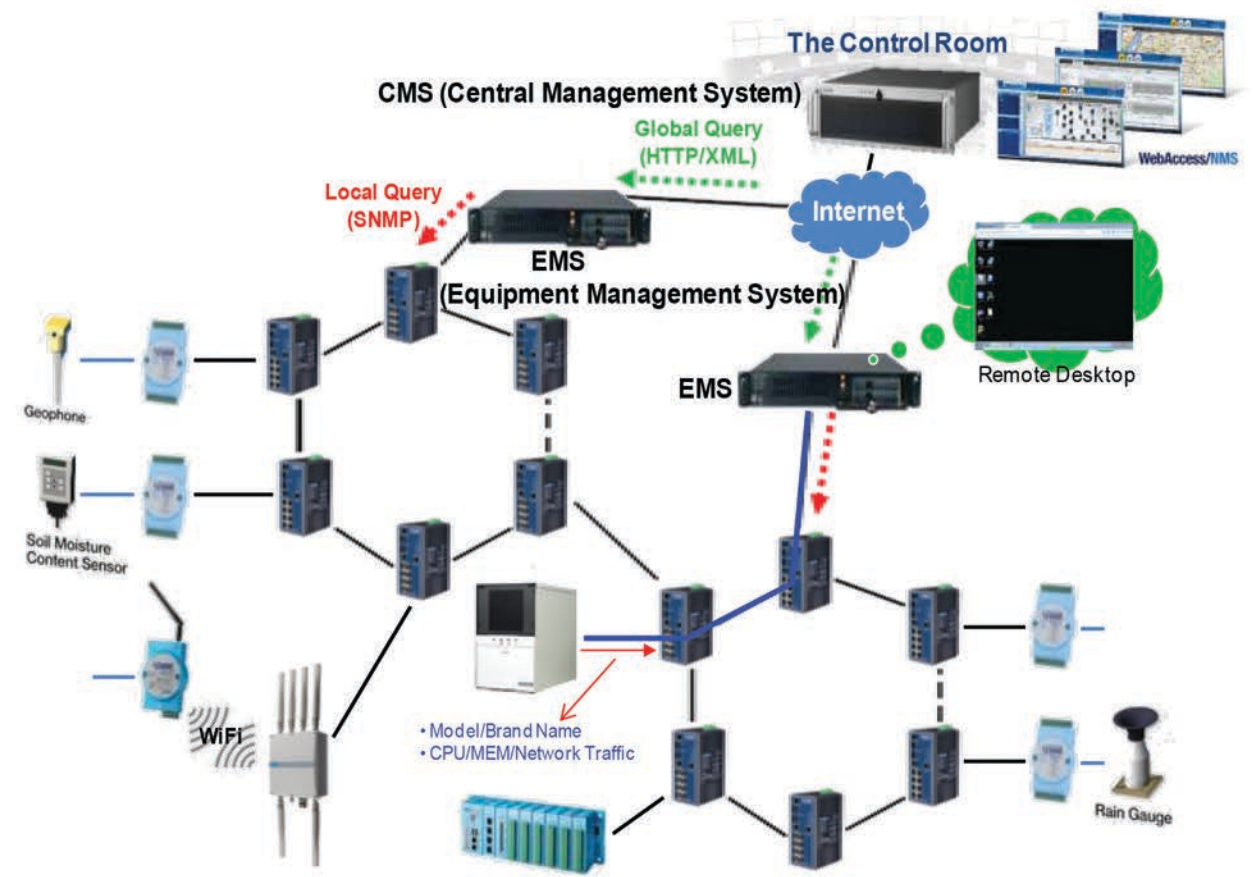


# Environment Monitoring

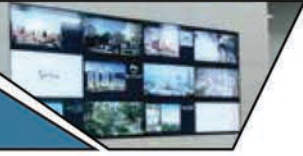


## When an IPC with SNMP sub- agent is integrated into a WebAccess /NMS managed network :

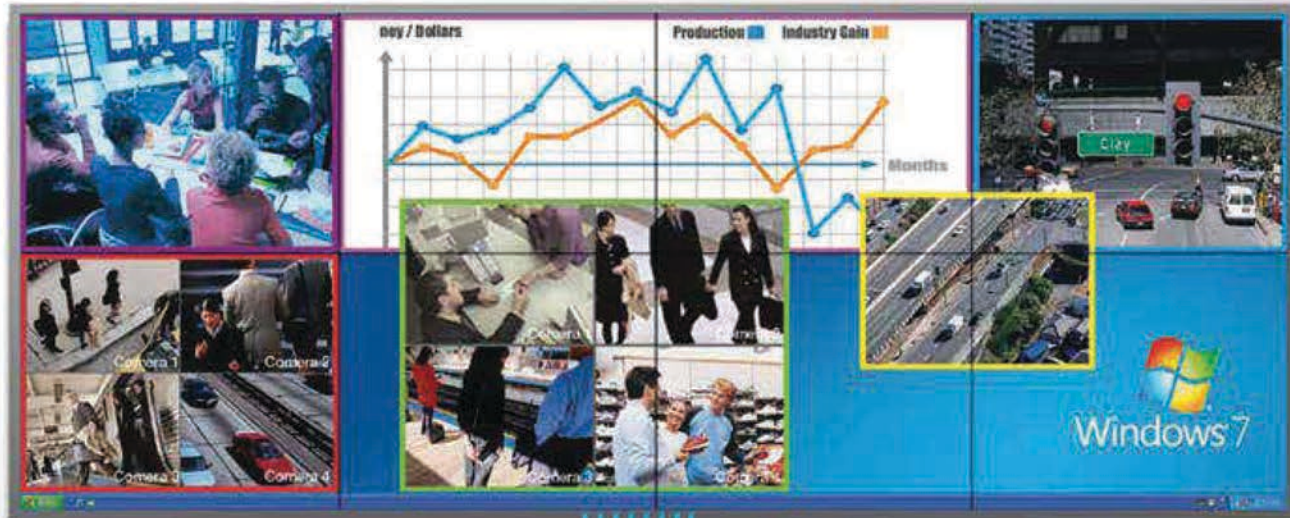
- Its model/brand name, description, CPU/MEM/network traffic are under monitoring. If network error happens SMS/SMTTP trap alarm message will be sent, the event will be logged.
- It's shown on the topology, user can also switch to Google map to see its real location. Link type/status is shownZ in real time too.
- User can view the UI by those prevailing web browsers on PC or mobile devices.
- It can be operated remotely with the remote desktop function.



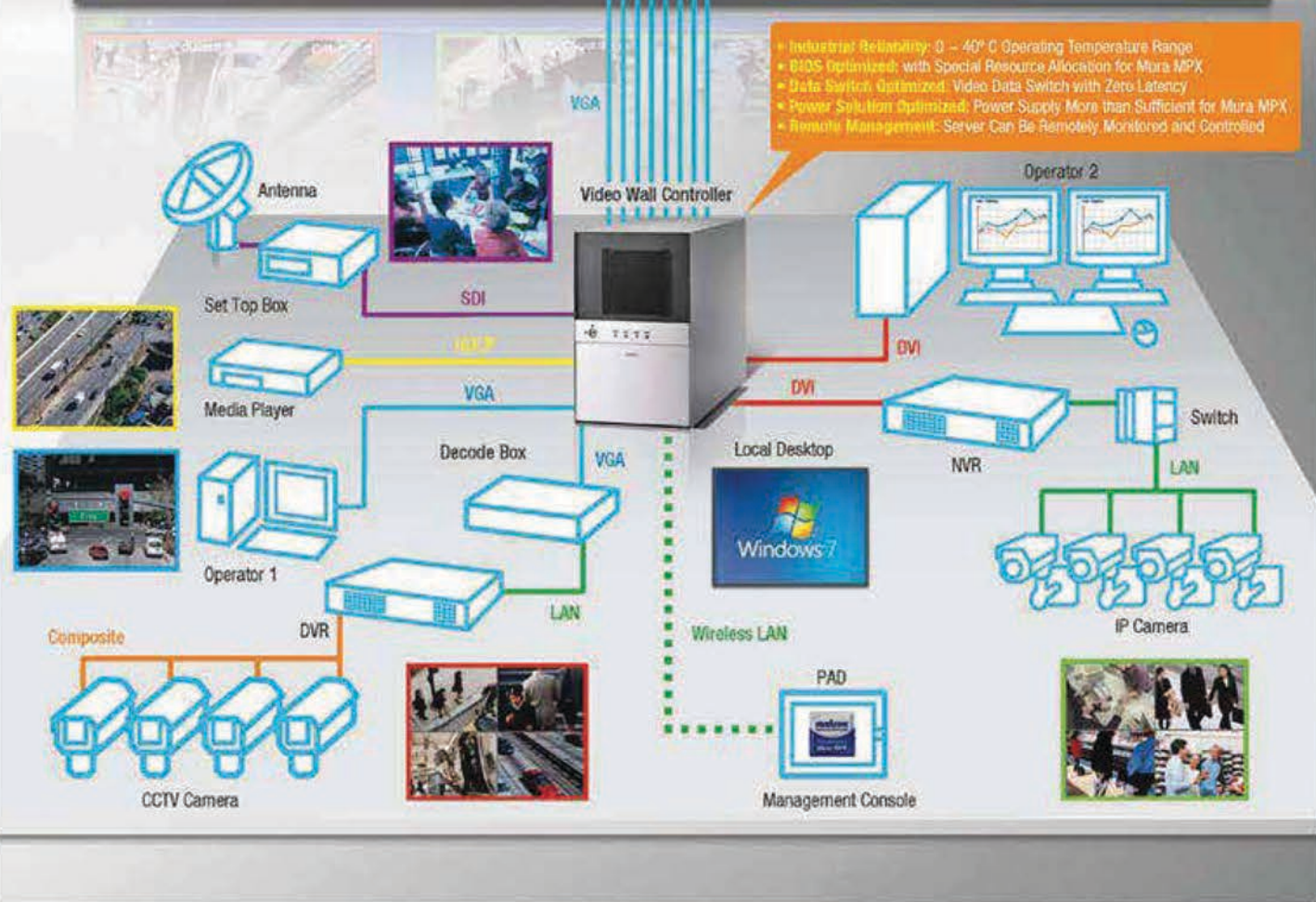
# Video Wall Architecture



# Small Device for Big Application



- Industrial Reliability: 0 - 40° C Operating Temperature Range
- BIOS Optimized: with Special Resource Allocation for Mura MPX
- Data Buffer Optimized: Video Data Switch with Zero Latency
- Power Solution Optimized: Power Supply More than Sufficient for Mura MPX
- Remote Management: Server Can Be Remotely Monitored and Controlled



## Brief Of Our Customer List



## Events & Solution Days



Solutions For a **Smart Planet**