MEASUREMENT AND CONTROL EQUIPMENT COMPANY LIMITED (MC&TT CO., Ltd)

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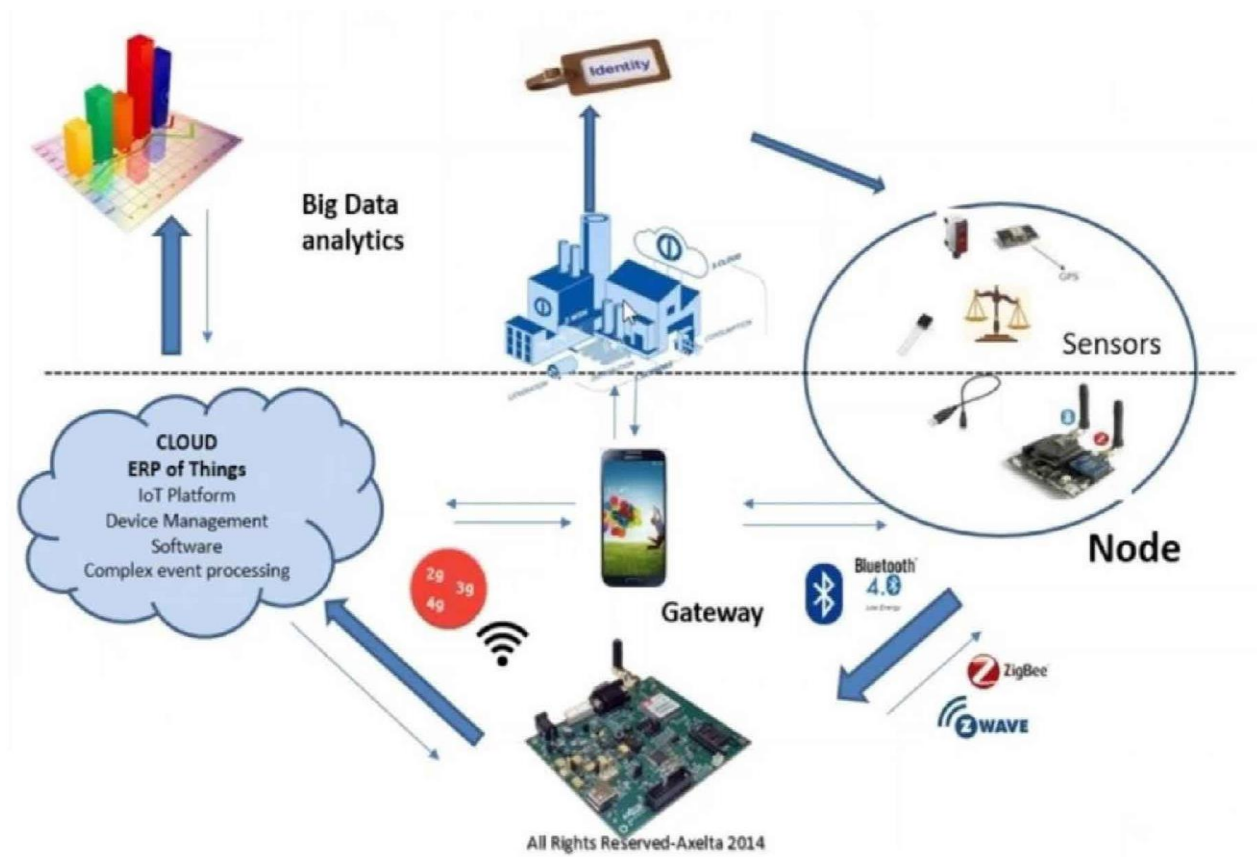Tel: +84-24-85894254, Mobile: +84 904 251 826
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MC&TT PROFILE

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HA NOI 2021

Introduction

Dear Customers,

Customer's benefits and satisfaction have always played an important role and become the target of **Measurement and Control Equipment Co., Ltd** (**MC&TT**).

Our company specializes in providing comprehensive and optimal **Equipment - Solutions - Technical service** in the field of Measurement - Control - Automation in industry and monitoring system.

With many years of experience, we have confirmed our position in supplying equipment and technical solutions for power companies, hydroelectric plants, industrial plants such as transmission equipment, measurement equipment, automation equipment, scada software, system integration projects etc.

With highly specialized and experienced staffs, **MC&TT** will provide optimal solution consulting services to the customers with the highest quality and best efficiency.

Formation and Development

The Measurement and Control Equipment Co., Ltd (MC&TT Co.,Ltd) was established in March 2009, operating in the field of supplying equipment and technology solutions of Automation - Measurement and Control. With desirability to build a credible and qualitative company, we have been becoming a leading company that supplies technical equipment and system integration services in Vietnam.

Our principal customers:

Industry -Automation - CCTV & System Integration

- Manufacturing factories: Hoa Phat Group, TH True Milk, Totalgas, Hoa Sen Group, CJ-VINA, etc.

- CCTV Fields for Corporation as VinGroup, Sam Sung Vietnam, Sun Group, High Way Management Board v.v.

- Foreign capital enterprises: Honda Viet Nam, Piaggio Viet Nam, SamSung Viet Nam, v.v

Electricity

- Vietnam Electricity, Northern Power Corporation, Central Power Corporation, Ha Noi Power Company, Son La Power Company, Dien Bien Power Company, Tuyen Quang Power Company, Lao Cai Power Company, Bac Can Power Company etc.

- Project management boards, electricity consultant companies, Hydropower management board 1,2,3, Electricity consultancy 1,2,3, etc.

- Hydropower plants: Hoa Binh hydropower, Son La hydropower, Ban Chat hydropower, Sông Bung 4 hydropower, Sông Tranh 2,v.v.
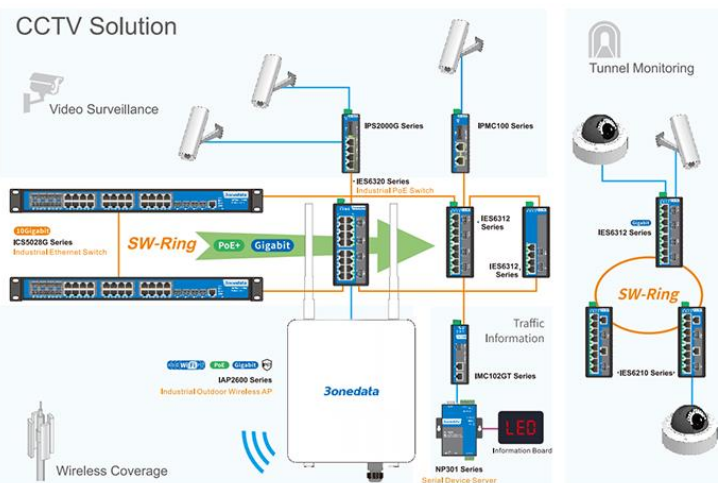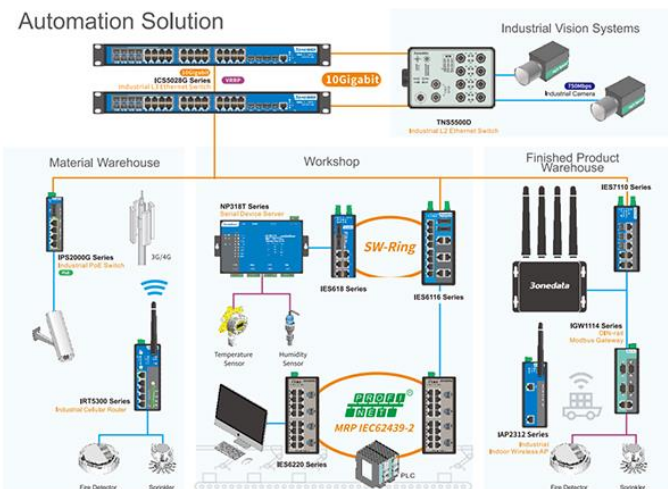
Trading companies

- Companies provide and install surveillance cameras; provides telecommunications equipment

- Integrated service companies, Trading companies

MC&TT is distributor of the company in Vietnam

1	3Onedata	Provide Industrial Ethernet Switch, Media Converter, Modbus Gateway, Serial Device Servers, USB / RS-232/422/485 / Ethernet converter...etc
2	Four-Faith	Provide M2M equipment such as: Industrial Cellular Router, Industrial IP Modem base on GPRS, 3G, 4G, 5G, Lora, Zigbee, ...etc
3	ICP DAS	Provide Machine Automation equipment, IIoT, PAC (Programmable Automation Controller), Remote I/O Module, Energy Management equipment, Industrial Communication, , Software, ...etc
4	Cimon	Provide Programmable Logic Controller (PLC), Human-machine - interface (HMI), Industrial computer (IPC), SCADA software
5	Axiomtek	Provider of Industrial PC (IPC), Motherboard, Fanless Embedded Systems, Touch Panel PC, Digital Signage Players (DSPs), Industrial IoT Gateway, Network Appliances, ...etc
6	Lorenz Messtechnik	Provide of Torque Sensors, Force Sensors, Load Cells as well as the corresponding Measured Data Evaluation Units

3onedata
Make network communication more reliable

MC&TT consults and provides communication equipment and industrial transmission systems- Distributor of 3Onedata in Vietnam

1. Unmanaged/Managed Switch
2. IEC-61850 (Power Industry Switch)
3. EN50155/EN50121 (Railway Industry Switch)
4. Industrial PoE Switch

1. Serial Server

| NP301(RS-232/485/422) | NP302T-2D(RS-485/422) | NP304T-4D(3IN1) | NP308T-8D(3IN1) | NP3116T-16D(RS-232/485/422) |

2. Modbus Gateway

| GW1101-1D(RS-485/422) | GW1102-2D(RS-485/422) | GW1104-4D | GW1108-8D |

3. Converter Products

| MODEL1100 | MC201 | IMF208-2F | RACK2000B |

Automation Solution

Industrial Vision Systems

Tunnel Monitoring

Video Surveillance

CCTV Solution

Industrial 3G/4G/5G Cellular Router

4G/3G/GPRS IP Modem

Industrial 3G/4G RTU

- Industrial grade high-speed 4G module, CPU 32 bit
- Support APN/ VPDN, IPSEC, PPTP, L2TP, OPENVPN, GRE
- 2.4GHz/ 5GHz Dual-Band wifi
- Provide stable network 24/7

- Industrial-grade chip 16/32 bit high-performance
- Low-power design, support multi-level sleep and wake-up mode
- Provide I/O interfaces, analog input, pulse counting, etc
- Various online and offline trigger modes, SMS backup, scheduled power on and off

- RTU + 3G/4G data transmission all in one, achieve collecting, counting, controlling, storing, alarming, transferring, etc
- Seamless connecting with various SCADA system, support Modbus RTU protocol
- Various interfaces: 8 analog input, 8 digital input, 4 digital output, 4 relay output

Zigbee/ LoRa Solution

Intelligent Gateway

Industrial Wifi Router,Wifi Marketing Router

LoRa Gateway, LoRa Module, LoRa Terminal
- Maximum transmission distance 11.5 km
- Support LoRaWAN protocol, multi-channel LoRaWAN
- LoRa Cloud Platform

ZigBee Modem, Zigbee Router
- Low power consumption
- Support remote and batch configuration, Update

- Support various communication protocol such as Modbus RTU/ TCP, PPI, BACnet, DNP3.0, etc.
- Can be connected to Four-Faith Cloud or third-party platform, such as Microsoft Azure-IoT, Ali LinkWan, Quark IoE, vv…
- Provide multiple IoT interface, such as RS232, RS485, I/O, etc.
- Support GPRS/3G/4G LTE/NB-IoT cellular network

- Industrial grade high-spped 4G/3G module, powerful wireless communication capability, transmit massive data in real time.
- Designed for vehicle Wifi applications
- Large capacity SSD or TF local storage
- Dual SIM cards và GPS
- Support remote batch management and configuration
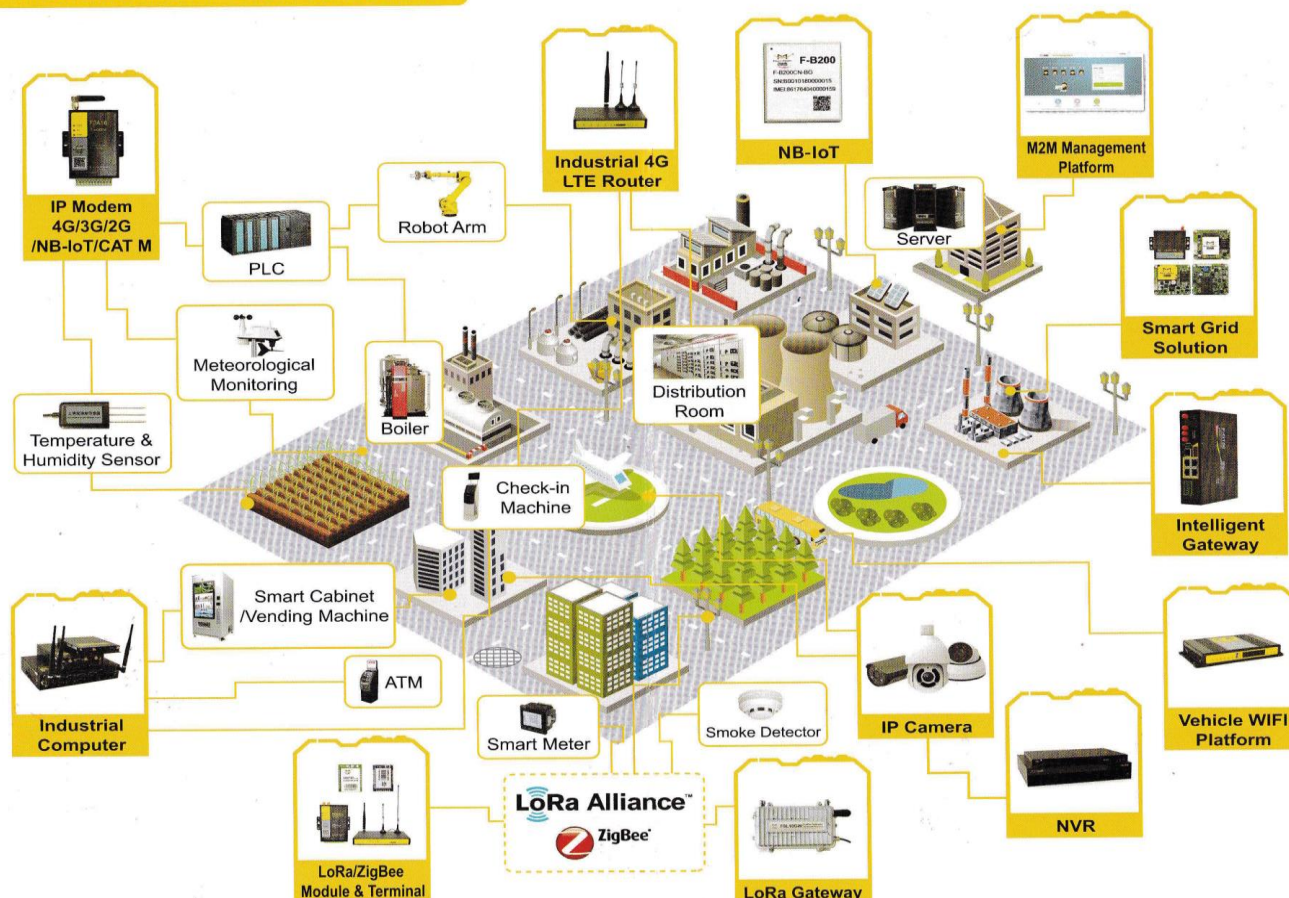- Cloud Wifi Operation Platform

4G LTE Industrial Computer (IPC)

- Traditional IPC + Industrial Router + High-Speed 4G network, All-in-one
- It is a disruptive multi-functional IoT master control station
- Support APN / VPDN, PPTP, L2TP, IPSEC
- Android và Linux dual system
- Provide stable network 7*24

IoT Surveillance System

- Wireless All-in-one security solution, plug & play
- Cloud platform & mobile APP provide seamless real-time monitoring
- Various IoT interfaces:I/O, serial port, relay, etc
- Support 3G/4G/5G cellular network
- Network Video Recorder (16 channels & 2HDDs; 4K Ultra HD, PoE power supply…)
- IP Camera (PoE, AF Lens, IP67, H.265& 140dB super WDR)

APPLICATION TOPOLOGY

Machine Automation

ICP DAS provides a wide range of motion solutions for machine automation systems, including PC-based solutions, embedded PAC solutions and remote motion solutions using Ethernet, Serial Communication, Motionnet, EtherCAT or CANopen motion control products for distributed motion control systems.

PAC (Programmable Automation Controller)

PAC products combine the functionality and openness of PC, the reliability of a programmable logic controller (PLC), and the intelligence of I/O modules with flexible software tools for a wide range of applications from data acquisition, process control, motion control to energy & building management.

Wireless Communication

Realizing the data acquisition, management and status monitoring by wireless network has become a promising approach in a vast range of industrial applications. Robust industrial wireless products supporting for ZigBee, Wi-Fi, 3G/4G, Bluetooth, IR, LoRa,NB-IoT communication are offered.

Panel, HMI

From simple LED message display, touch HMI devices to complex touch panel PC/PAC, ICP DAS provides you with the most diverse choices and the best value.

PC Boards

More than 200 PC boards are offered for data acquisition, motion control and industrial communication. Most of them are supplied with reliable Windows and Linux drivers, and demo programs with source code.

Remote I/O Module and Unit

Remote I/O Modules support a wide range of of field signals including including current, voltage, thermistor, thermocouple, RTD, and strain gauge with many protocols and interfaces.

Software

View or download information about various software, designed for getting started with ICP DAS products, developing automation control systems, and monitoring and collecting data through industrial communication interface

Industrial Communication

For connecting and exchanging data among various automation devices in industrial fields, ICP DAS provides a variety of different communication products to support widely used industrial communication protocols and interfaces.

Energy Management

The most innovative energy management solution includes front-end Power Meter, Power Meter Concentrator, backend software tool for database import operation (PMC Data Server), InduSoft SCADA software and IoTstar Cloud Management software.

Signal Conditioning Modules
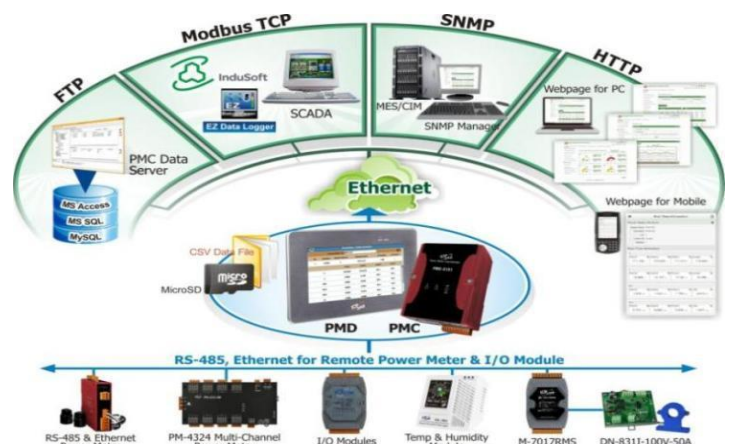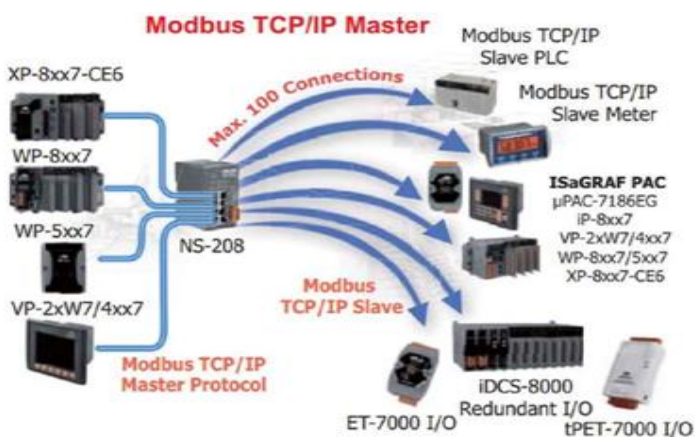
Signal conditioning modules can convert real-world signals suitable for measurement and data acquisition systems by amplification, filtering, range matching or isolation.

Industrial Internet of Things

Industrial Internet of Things (IIoT) is the new cloud trend, which makes all the devices communicated with each other In industrial automation applications.

Accessories

A large number of various accessories including daughter boards, power supplies, antennas and cables are provided for users to choose for their application requirements.

World Standard Industrial Controller Developed PLC based on IEC61131
Suitable from Small Machine to Large Plant

XP Series for lager-scale system

- Hight – speed operation
- Instructions over 400, Floating Point Arithmetic
- Lager Memory Capacity
- Higher Performance, Redundancy system

CP Series for medium-scale system

- Instructions over 300
- Provides Extensive Network
- Ethernet, Modbus, Profibus, Special module (Loadcell, Thermister…)

PLC-S Series for small-scale system

- Small Compact PLC
- Online Edit, Support SD/MMC
- 20Kpps High Speed Counter
- 100Kpps pulse to control 2-axis positioning
- Communication with Maximum 3 Network (Ethernet, RS232, RS485)

CIMON SCADA software solutions are designed to adapt to all modern automation applications. CIMON SCADA gives automation and control users the ability to access and interact with their control platforms from any place and at any time.

CIMON SCADA

- Rich graphic symbol library and animation samples
- Recipe data, Alarm handling, Trend
- Remote Access (Web browser, Mobile application)
- Multilingual Applications
- Data Logging, Report and 2D & 3D Chart supported
- Tag editor and Tag Database
- Support for a wide range of communication drivers

CIMON XPANEL is a high definition touch panel operator interface terminals(OIT).
Windows CE 6 or Compact 7 embedded Touch panel with Xpanel-Designer software
Allows a substantial reduction in cost for the creation of applications and their maintenance.

- Support 4", 7", 10", 12", 15"
- Windows CE 6 Or Compact 7
- Recipe data, Alarm handling, Trend
- Remote Access (VNC)
- Data Logging, Schedule, Script, Multilingual Feature ...
- Supports multiple communication drivers
- Large graphics library
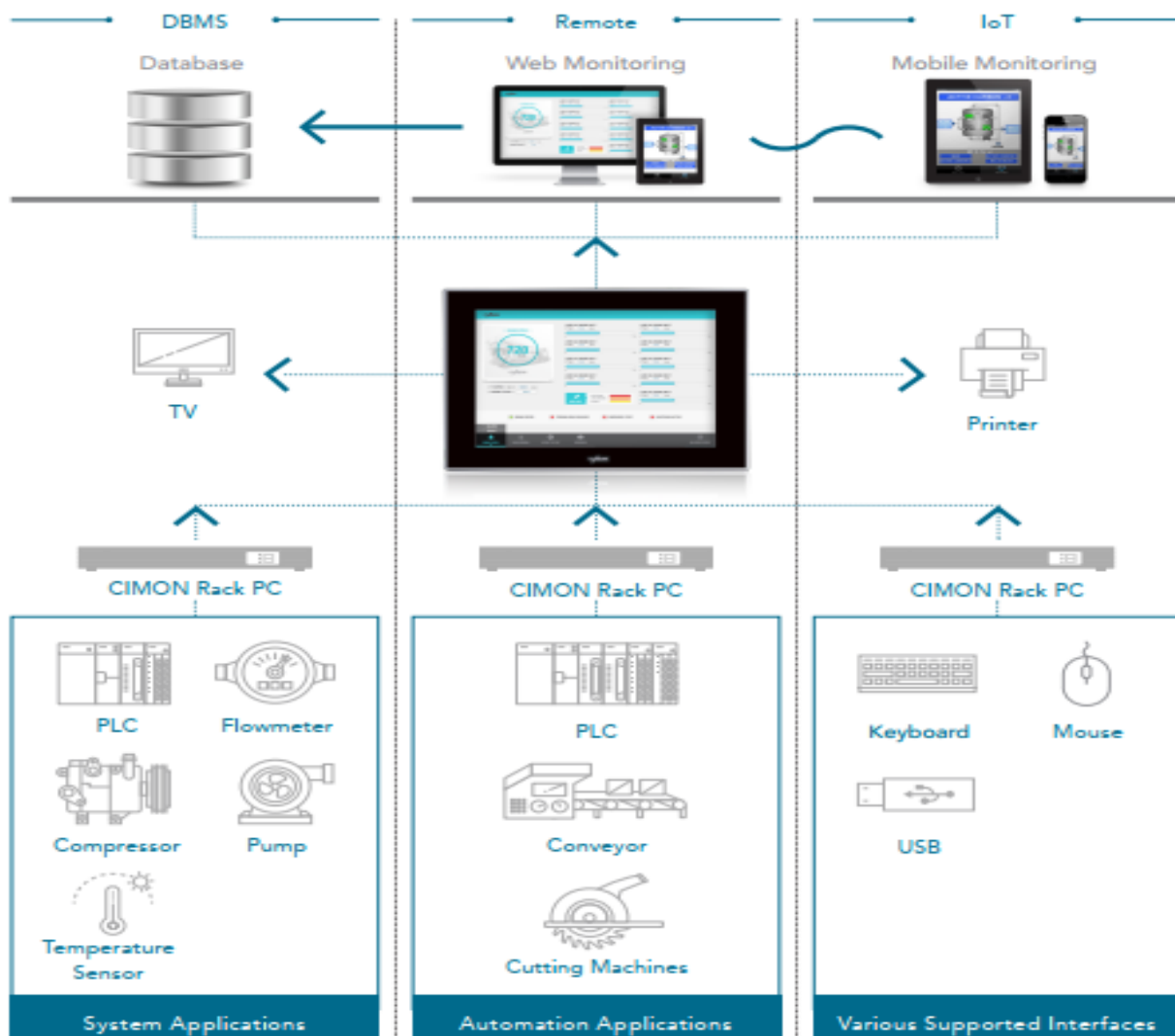- IP65

Hybrid Xpanel

Panel PC

Rack PC

- Two devices, HMI and PLC, are combined into one product.
- PLC-S Expansion (add up to 2 PLC-S modules)
- Separated Terminal (The USB host allows the use of both Xpanel Designer and CICON software)
- Support OPC UA

- Support CPU Intel J1900/i3-6100U/i5-6300U
- FCC, CE, UL, cUL, IP65, NEMA 4X và IECEx certifications
- Fanless design, Low power consumption
- UWF and EWF features Disk Drive Preservation, support RAID 1
- WES 7, Win 10 IoT, Win 10 Professional và Linux

- Support CPU Intel J1900/ i5-6500/i7-6700
- EWF and UWF feature, Winclone
- Support RAID 1 và hot swap
- Fanless design, Extremely low power consumption

MC&TT is the leading consultant and provider of industrial computers, embedded computers – Distributor, Industrial & Embedded Motherboard of Axiomtek in Vietnam

Boards & Modules

- Industrial Motherboard
- System on Module
- PICMG Single Board Computer
- Intel® Smart Display Module
- Peripheral, Add on Card

Systems & Platforms

- Fanless Embedded System
- Industrial PC
- Digital Signage Player
- Machine Vision & AI
- Data Acquisition
- Transportation System
- Network Appliance

Industrial Panel PC

- Fanless Touch Panel PC
- Touch Panel PC & Monitor
- Medical Computing
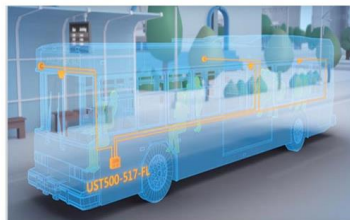- Transportation Computing

AIoT Solutions

- Software
- AMS Starter Kit
- AI Starter Kit
- Transportation
- Automation
- Retail

AXIOMTEK Solutions

Industrial Automation

- Machine Vision Solution
- Predictive Maintenance
- Solutions
- Industry 4.0 Makes Factory
- Smart
- Smart Factory

Transportation

- Smart Bus
- High-tech Trackside and Station
- Roadside and In-vehicle Box PCs
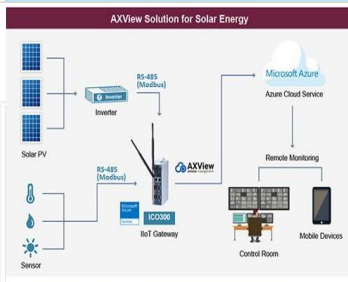- Intelligent Transportation
- Solutions
- Train Control System

Medical Solutions

- Computer Solutions for Diagnostic Medical Devices
- Intelligent Medical Solutions
- Medical Cart Technology
- Cell Therapy
- Intelligent Medical Automation

Retail Solutions

- Omni-Channel Retailing
- Optimizing In-Store Experience
- Innovative Digital Signage Solutions
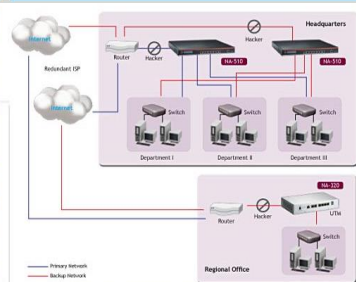- Digital Education
- OPS Compliant Digital Signage

Power and Energy

- Axiomtek's Intel RFP Ready Kit
- Smart Energy Control System for IIoT
- Solar-Powered Solutions
- Microgrids
- Wind Power Automation

Internet of Things (IoT)

- Artificial Intelligence (AI) & Edge Computing Solutions
- Realizing Farm Intelligent
- Smarter Cities with Smarter Infrastructures
- Smart Machines

Network Security

- Network Appliances of the Next Generation
- Network Security Management
- Unified Threat Management
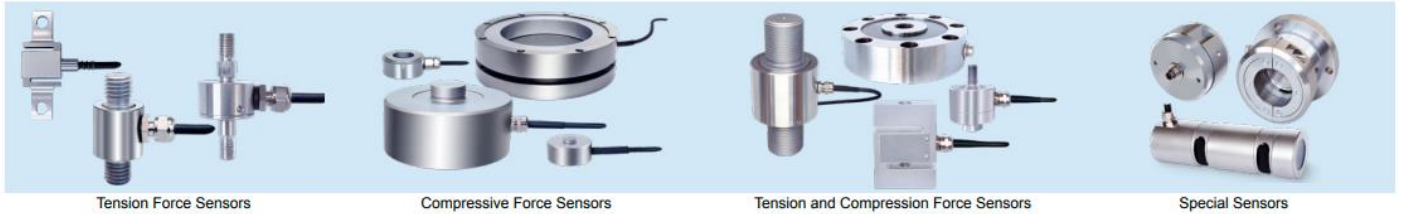- Universal Port Management
- Enclosure Management

Gaming Solutions

Lorenz messtechnik gmbh

MC&TT is the leading consultant and provider of torque sensors, force sensors, load cells – Distributor of Lorenz Messtechnik in Vietnam

Our manufacturing program includes Torque Sensors, Force Sensors, Multi-Component Sensors, Load Cells as well as the corresponding measured data evaluation units
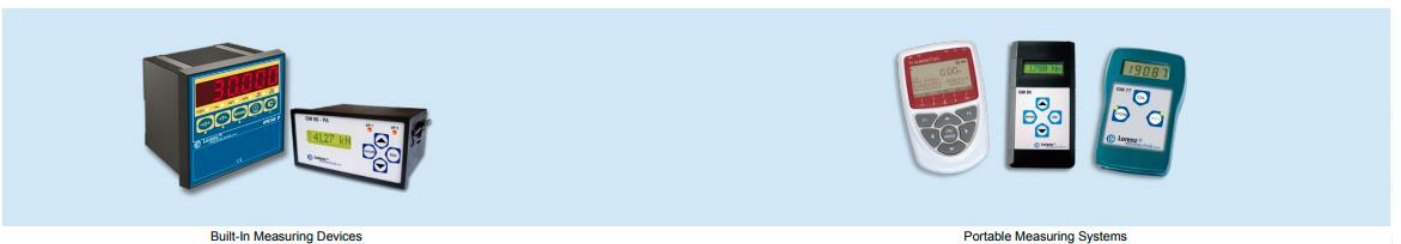
Force Sensors

| Tension Force Sensors | Compressive Force Sensors | Tension and Compression Force Sensors | Special Sensors |

Torque Sensors

| Reactive Torque Sensors, Non-Rotating | Rotating Torque Sensors with Slip Rings | Rotating Torque Sensors with Non Contact Transmission |

Multi-Component Sensors

| Contactless Torque/ Force Sensor, Rotating | Reaction Torque / Force Sensors, Non-Rotating |

Load Cells

| Compressive Load Cells | Bending or Shear Beam Load Cells | Compression Load Cells | Tension and Compression Load |

Amplifiers

| Sensor Interfaces | Tabletop and Laboratory Measuring Devices | DIN Mounting Rail Devices |

| Built-In Measuring Devices | Portable Measuring Systems |

Accessories

| Force transmissions, thrust pieces and mounting flanges | Assembly Kits (Mounting Kits or Weighing Modules) |