# Enabling Smart Factories

## Introduction to Advantech's Smart Factory Products

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# Advantech Product Offerings

| Browser-based HMI/SCADA Software | Human Machine Interfaces | Serial Device Servers | Managed Ethernet Switches | Embedded Automation Computers | Distributed Controllers | Ethernet I/O Modules | Wireless I/O Modules |

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# Visualization

- **Widescreen / Multi-touch**
- **Video Technology**
- **Seamless Integration**
- **Cloud Computing**
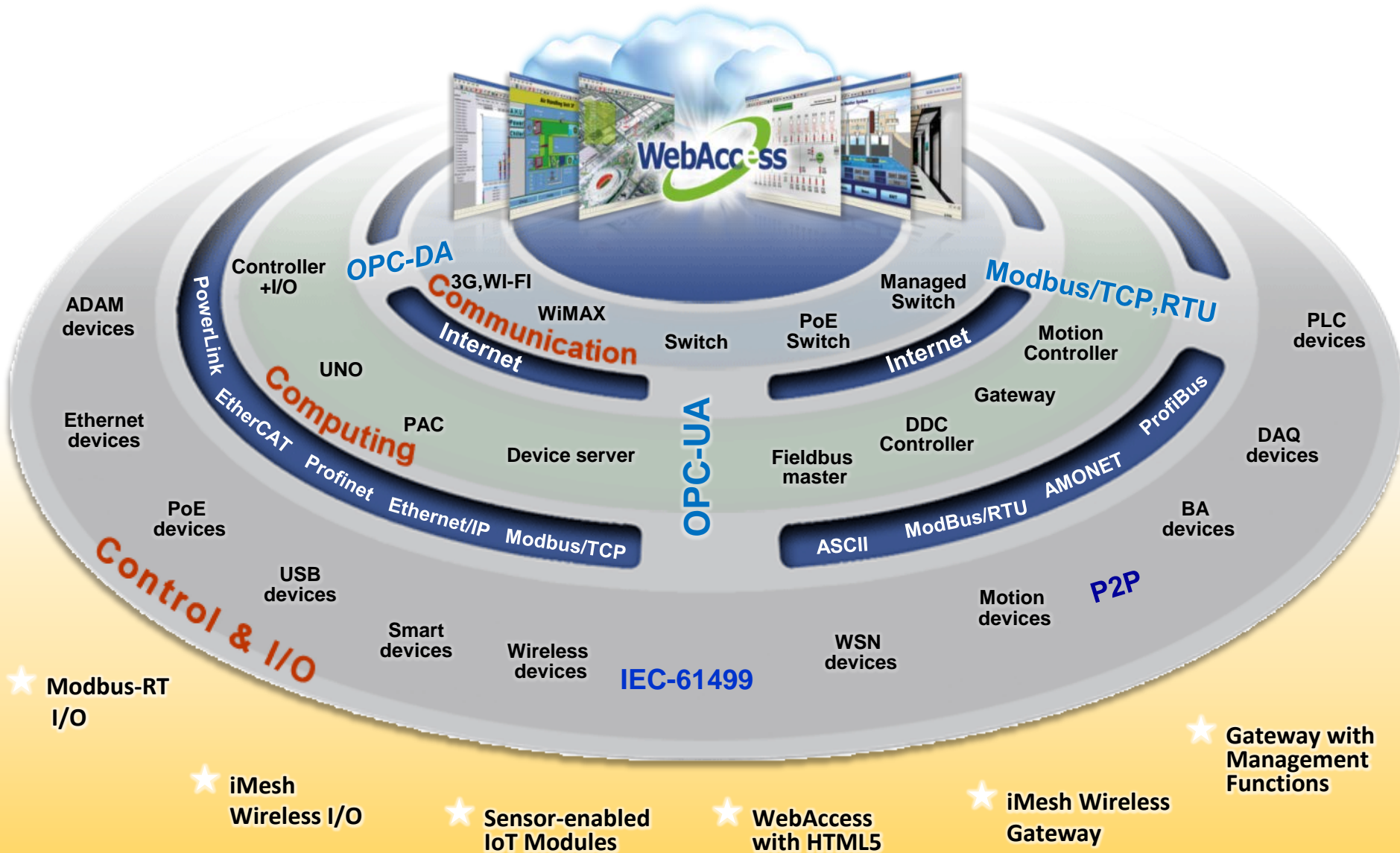- **Displaying / Controlling / Managing / Analyzing**

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# Advantech WebAccess  - IoT Cloud Pivot



WebAccess

**Communication**
- OPC-DA
- Controller +I/O
- 3G,WI-FI
- WiMAX
- Internet
- Switch
- PoE Switch
- Managed Switch
- Modbus/TCP,RTU
- Motion Controller
- Internet
- PLC devices

**Computing**
- PowerLink
- EtherCAT
- UNO
- PAC
- Profinet
- Device server
- Ethernet/IP
- Modbus/TCP
- OPC-UA
- Gateway
- DDC Controller
- Fieldbus master
- ProfiBus
- AMONET
- ASCII
- ModBus/RTU
- DAQ devices
- BA devices

**Control & I/O**
- ADAM devices
- Ethernet devices
- PoE devices
- USB devices
- Smart devices
- Wireless devices
- IEC-61499
- WSN devices
- Motion devices
- P2P

- ⭐ Modbus-RT I/O
- ⭐ iMesh Wireless I/O
- ⭐ Sensor-enabled IoT Modules
- ⭐ WebAccess with HTML5
- ⭐ iMesh Wireless Gateway
- ⭐ Gateway with Management Functions

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# Cloud-based Interconnectivity



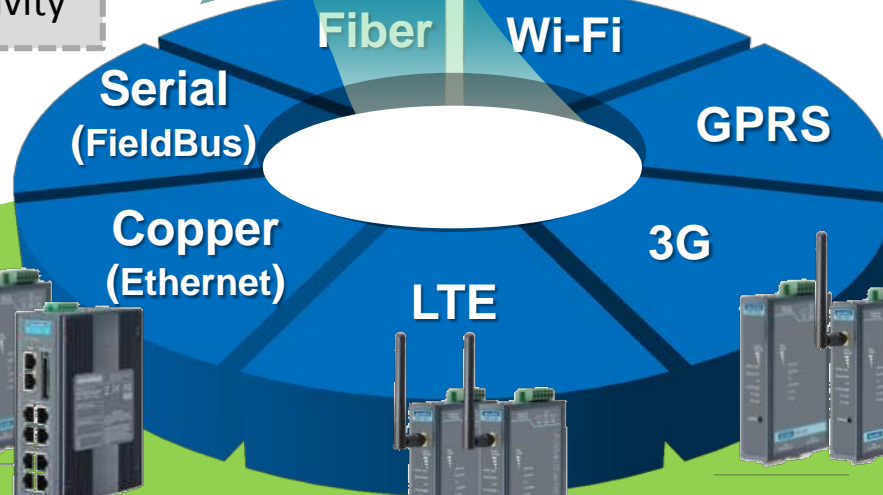**Device Cloud**

- Internet
- Intelligent
- Interconnectivity

**WPAN**
- RS-232/422/48
- Digital I/O
- Zigbee, 802.15.4
- Wireless Sensor Network

**WLAN**
- Wi-Fi
- Ethernet

**WWAN**
- GPRS
- 3G

Fiber

Wi-Fi

Serial (FieldBus)

GPRS

Copper (Ethernet)

3G

LTE

ADAM-5K/6K w/ Ethernet

PLC

IP Camera

Inverter

Flow meter

Detector

ADAM- 4K/5K

Pressure Meter

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# IoT Gateway & Data Concentrator

- **Robust & Reliable working on remote sites**
- **Remote management & Diagnosis**
- **Diverse Form factors and compact size to fit broad installation environments**
- **Computing / Communication / Control in one box**



*DiagAnywhere*

Recording

Capturing Screenshots

Monitoring

Controlling

**WebAccess**

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# Smart I/O Devices



ADAM-6200 with Daisy Chain

ADAM-6000

Modbus TCP IP

Modbus RTU

ADAM-2000

ADAM-4000

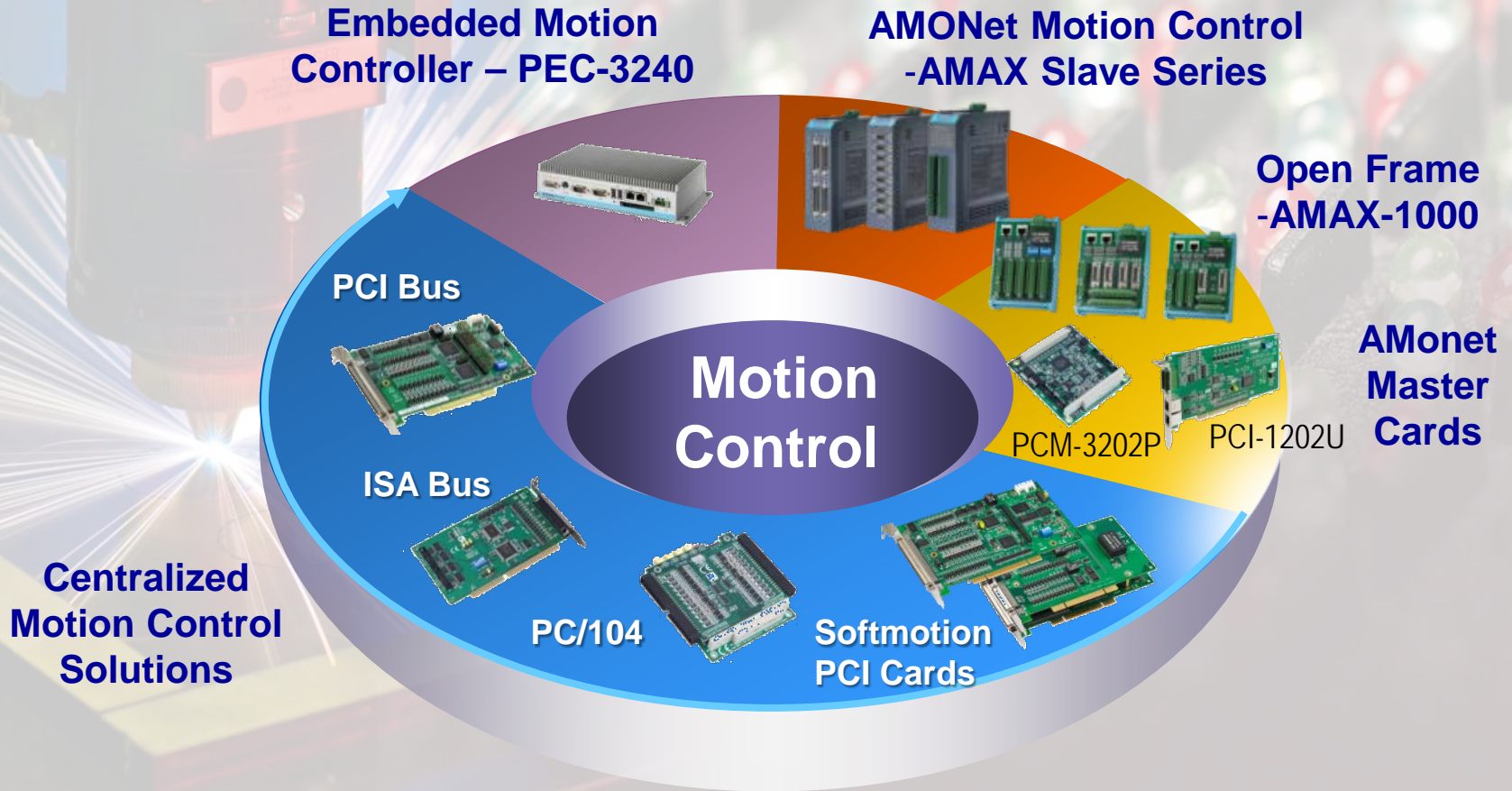*Enabling an Intelligent Planet*

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# Motion Control & I/O Modules

- **Application-oriented Motion Control Modules to Fulfill a Variety of Control Requirements**



Embedded Motion Controller – PEC-3240

AMONet Motion Control -AMAX Slave Series

Open Frame -AMAX-1000

AMonet Master Cards

PCM-3202P

PCI-1202U

PCI Bus

ISA Bus

Centralized Motion Control Solutions

PC/104

Softmotion PCI Cards

Motion Control

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# Advancing Smart Manufacturing

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