Advantech Motion Automation Solution

- IPC
- Backplane
- CPU card
- Analog I/O
- Digital I/O
- Motion Control
- FPM
Distributed motion and I/O solution

All in One System

Controller

All in One System

Saving wiring & easily maintenance!

Accelerating eAutomation
Advantech Distributed Motion Solution

MotionNet

Ethernet

Master
PCI or PC/104

Host PC

Motion Slaves

Digital Slaves

Analog Slaves

Extension Slaves

Accelerating eAutomation
Advantech Data Acquisition Solution

- **Normal speed**
  - ADAM-4000 series
  - ADAM-5000 series
  - ADAM-6000 Series

- **High-speed (20 Mbps)**
  - AMONet series
    - Digital I/O
    - Motion & Encoder
Stand-alone I/O Solution

Features:
- 3C Hybrid Process Controller
- PID algorithm embedded
- UP to 1M User’s AP Memory
- Rich Communication Port

Water Treatment

HVAC

Discrete

Factory Production Line

Machine Operation

AMONet series

ADAM-5511 Controller

ADAM-5510 Controller
Serial I/O Solution

Features:
• Easy for wiring implementation
• Easy Integrated ASCII Command
• Low Power Consumption
• Full Range I/O Selection (Direct Temp. Module)

ADAM 4520
RS-232
ADAM 4521
RS-232/422/485 Converter
RS-485
RS-485 Repeater
ADAM-4000 I/O
RS-485
ADAM-5000 I/O
Remote I/O Solution

Features:
- High-speed Ethernet Remote Data Transmission
- Cost-saving Field Wiring and Installation
- Expanding Controller’s I/O Capacity
- Support Standard Modbus for Integration

UNO-2xxx

ADAM 6520
ADAM-6000 I/O
ADAM-4000 I/O
ADAM-5000 I/O
AMONet DIO

ADAM-4000 I/O
ADAM-5000 I/O
AMONet DIO
PC/104 for Embedded solution

Features
- 2 Rings of AMONet™
- Max. 128 Slaves
- Max. Distance 100m
High-speed Distributed Control Solution

Features
- 2 Rings of AMONet™
- Max. 128 Slaves
- Max. Distance 100m

Touch Panel Computer
Compact IPC
DIO Slaves
Motion Slaves

PCI-1202

Accelerating eAutomation
Application  Story
PCI-1240 Applications

Dispensing Machine

Control: PC
PCI-1240 x 1

Drive:
Orient *3
Practice

- Use VC/VB to create a simple program of PCI-1240.
- Function: Move CW / CCW direction and Stop
Loader / Un-loader for LCD

System Requirements

- Using double line (four port cassette) design could change panel conveyer type midway between two cassettes automatically for LCD LD/ULD.
- Auto LD/ULD increases efficiency.
- Simple Operation interface could shorten the training of staff.

Project Implementation

- Integrate robots, conveyer belts and sensors through high-speed distributed digital I/O modules.
- Industrial flat panel for seamless integrated on the mechanism.
Loader / Un-loader for LCD

Benefits

- Leverage PC-based open architecture and flexible expansion capability
- Save high cost by leverage the high-speed DIO to integrate the robots
- Provides remote diagnostic and downtime management through Ethernet port
**Blister Packing Machine**

**System Requirements**
- Simultaneous and distributed motor control for whole machine
- Anti-vibration and robust controller

**Project Implementation**
- Solid integration to offer best performance
- Motion and digital I/O slave modules are integrated into equipment
**Blister Packing Machine**

**Benefits**
- Distributed motion control solution to reduce the CPU loading
- Complete solution on data acquisition and control interface and HMI platform (one-stop shop)
- Dedicated motor driver terminal board

**Application Story**

**Motion Slave**

**Motor Control**

**Controller**

**AMONet**

**Accelerating eAutomation**