

Highlights & New Product Showcase

High-Resolution Modules

PCI-9527 **Coming Soon!**

24-Bit High-Resolution Dynamic Signal Acquisition and Generation

Page 4-10



- 24-Bit Sigma-Delta ADC and DAC
- 2-CH simultaneous sampling analog input / 2-CH simultaneous updated analog output
- 432 KS/s maximum sampling rate with software programmable rate
- Programmable input range: ± 40 V, ± 10 V, ± 3.16 V, ± 1 V, ± 0.316 V
- Programmable output range: ± 0.1 V, ± 1 V, ± 10 V
- AC or DC input coupling, software selectable
- A trigger I/O connector for external digital trigger signal
- Support IEPE output on each analog input, software-configurable
- Multiple module synchronization interface for high density analog input channels

Resolution	Sampling Rate
24-Bit	432 kS/s
IEPE Support	2 AI / 2 AO

PCI-9524

24-Bit Precision Load Cell Input Card

Page 4-9



- 4-CH full-bridge load cell sensor inputs
- Up to 30kS/s sampling rate
- Transducer input accuracy up to 1/200,000 counts at full-scale
- 4-CH 24-bit general-purpose analog input
- 3-CH PWM output, supporting single pulse and pulse train
- 3-CH encoder inputs, supporting CW/CCW & AB phase
- 2-CH 16-bit analog outputs
- Auto-calibration feature

Accuracy	Sampling Rate
5 ppm	30 kS/s
Built-in Motion Control	Built-in 10 V / 2.5 V Excitation voltage

High-Speed Digital I/O

PCIe-7350

50 MHz 32-CH High-Speed Digital I/O Card

Page 2-31



- x1 lane PCI Express® Interface
- Maximum 50 MHz clock rate from internal timer or 100 MHz from external clock
- 200 MB/s maximum throughput
- Software selectable voltage levels: 1.8 V, 2.5 V, and 3.3 V
- 16-step phase shift in external clock mode
- Per group (8-bit) input/output direction selectable
- Support I²C and SPI programmable serial interfaces

PCI Express®	Max. Data Rate
	200 MB/s
Clock Rate	Logic Selectable
50 MHz	1.8V/2.5V/3.3V

GPIO

USB-3488A **NEW**

High-Performance IEEE-488 USB GPIB Interface Controller

Page 5-1



- Simple GPIB connectivity for laptop computers
- APIs compatible with the NI-488.2* driver software
- Fully compatible with IEEE 488.1 and 488.2
- Fully compatible with industry-standard VISA libraries
- No GPIB cable required
- Plug and Play interface
- USB 2.0 compatible
- Maximum GPIB transfer rates of more than 1.2 MB/s

Plug & Play	IEEE 488.1/2
USB 2.0	Built-in 2 M Cable

Digitizers

PXI/PCI-9816/9826/9846 **NEW**

4-CH 16-Bit 10/20/40 MS/s Digitizers with 512 MB SDRAM

Page 4-3



- 16-bit high resolution A/D converter
- Up to 10 MS/s, 20 MS/s and 40 MS/s per channel
- 512 MB on-board memory for data storage
- Software selectable 50 Ω or 1 M Ω input impedance
- Programmable input voltage range: ± 0.2 V, ± 1 V
- 5 MHz, 10 MHz, and 20 MHz analog input bandwidth respectively

PXI/PCI	4-CH
Resolution	Sampling Rate
16-Bit	10/20/40 MS/s

Page 6-1

PACwiz = PLC + PC

- Easy to development
- Real-time capability
- High-performance Computing
- Integration of field bus, motion control, and vision analysis

**Motionnet / HSL**

- Page 7-25

PCI-7856 Page 7-26

DPAC-3000
Page 12-10

PCI-8158+DB-8153 Page 7-9

Distributed Single-axes Motion Control Modules

Distributed 4-axes Motion Control Modules



Highlights & New Product Showcase

Vision

Full Spectrum of ADLINK Frame Grabbers Supporting "Power over Cable"

Power over Ethernet

FireWire

Power over Camera Link

- ✓ Simplified installation
- ✓ Lower maintenance
- ✓ Reduced total cost



GIE62+ NEW ----- Page 11-6

■ 2-CH PCI Express® PoE Frame Grabber



FIW64 ----- Page 11-3

■ 4-CH PCI Express® IEEE 1394b Frame Grabber



CPL64 ----- Page 11-4

■ 2-CH PCI Express® PoCL Frame Grabber



HDV62 **Coming Soon!**

Full HD 1080p Video Capture Card -----

- Resolutions up to 1920 x 1080p, 60 fps
- PCI Express® x4 interface
- 16:9 wide aspect ratio video format
- Supports standard definition and high-definition video input
- Supports RGB, YUV, and monochrome pixel output formats
- Supports graphical overlays and stream imaging of a specified area



--- Page 11-7

Motion Control

PCI-8253/8256 -----

Page 7-7

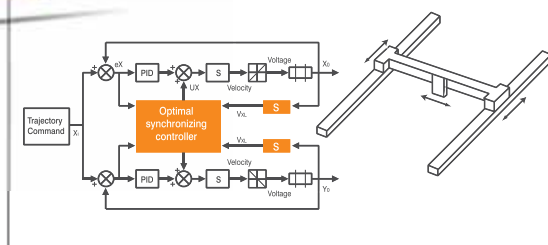
Advanced DSP-based Servo Motion Controller

Fully closed-loop control with high accuracy and fast response time for AOI/gantry/contouring applications

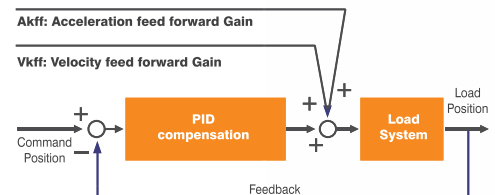
Based on over ten years of experience in developing PC-based motion controllers, ADLINK designed the PCI-8253/8256 to take full advantage of the latest digital signal processing technologies to provide a ± 10 V analog motion controller with full-closed loop control with PID plus feed-forward and 20 MHz encoder input frequency. The PCI-8253/8256 not only provide general motion control, but also support comprehensive and application-specific functions ideal for automated optical inspection (AOI), gantry, and manufacturing machine applications, as well as complete compatibility with all the top third-party servo drivers in the market.



Dynamic Gantry Error Compensation



Closed-loop Control with PID plus Feed Forward Gain





The Truly Rugged Fanless I/O Platform

Rugged

- -20 to +70°C operating
- 5G vibration resistance

Durability

- Fanless
- Cableless

Usability

- Atom N270 processor
- Rich I/O functions



Rugged fanless and cableless design

Configurable Controller

MXC-2000 Series ----- Page 12-5
[Intel® Atom™ Fanless Configurable Controller with PCI/PCle Slots](#)

- Intel® Atom™ N270 1.6 GHz processor + 945GSE chipset
- Two PCI/PCle expansion slots
- Built-in 9 Vdc to 32 Vdc wide-range DC power input
- Optional on-board 16-CH isolated DI and 16-CH isolated DO

Embedded Controller

MXE-1000 Series ----- Page 12-3
[Intel® Atom™ Fanless Embedded Controller with Integrated I/O](#)

- Intel® Atom™ N270 1.6 GHz processor + 945GSE chipset
- Dedicated GbE and 1394b ports for camera connectivity
- Built-in 6 Vdc to 36 Vdc wide-range DC power input
- One internal PCle Mini Card socket with a USIM socket



Data Acquisition (DAQ)

Page 2-1

Select from a wide range of ADLINK's PC-based data acquisition modules, including analog input, load cell sensor measurement, analog output, digital I/O, relay outputs, and timer/counter boards. ADLINK's data acquisition modules are designed for a wide range of applications and are available in a variety of form factors including ISA, PCI, PCI Express® PC/104+, CompactPCI, and PXI. More than one hundred DAQ and DIO modules are offered. All ADLINK boards support NI® LabVIEW™, MATLAB® Data Acquisition Toolbox™, Microsoft® Visual Basic®, and Microsoft® Visual C++®.

Find the Right DAQ!

DIO Selector

AIO Selector



Click on www.adlinktech.com/DAQ/



PCI Express

PXI

PCI

CompactPCI

PC/104+