

At ADLINK, We CARE



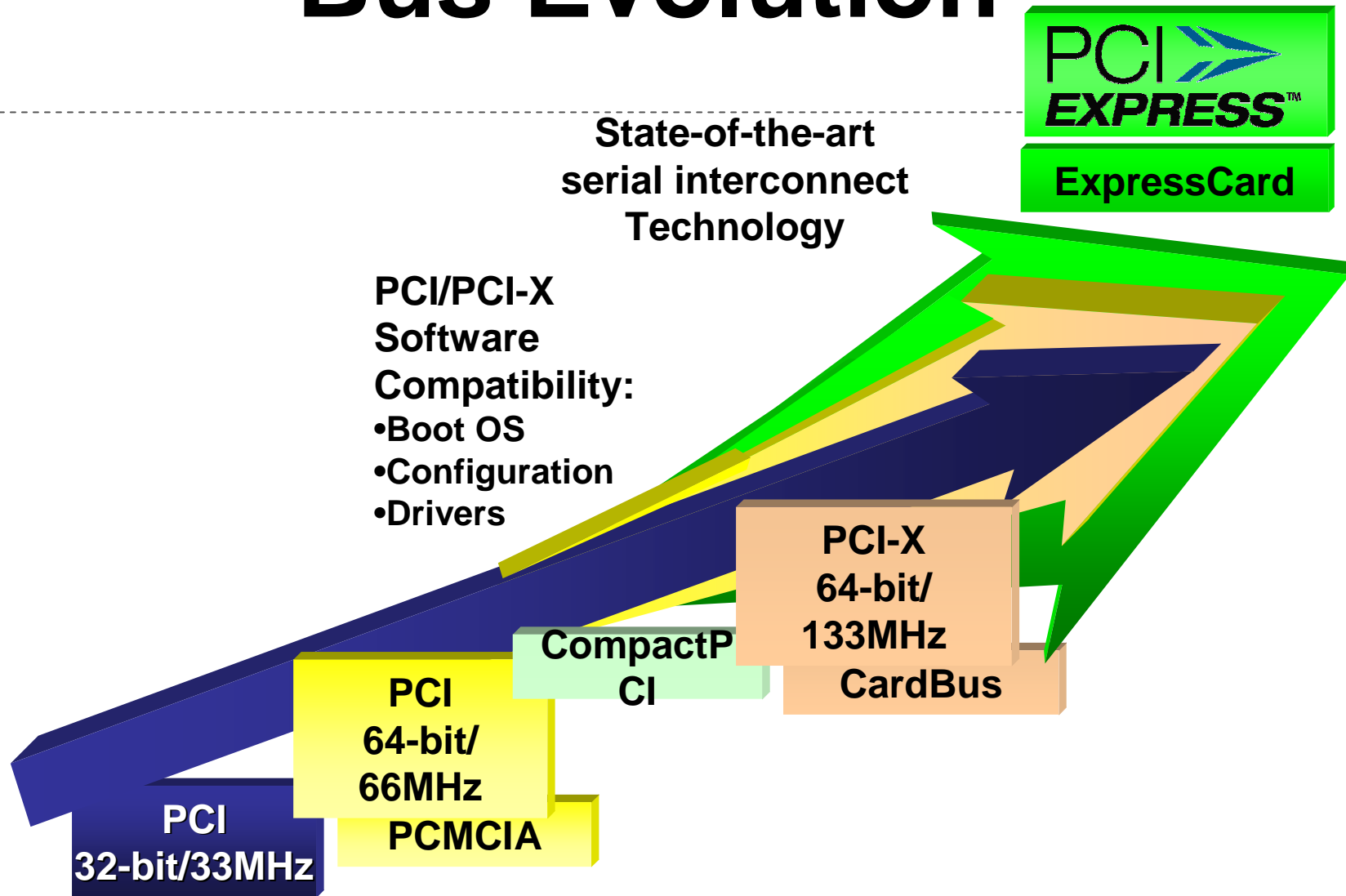
New Product Introduction DAQe-2010/2016



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Bus Evolution



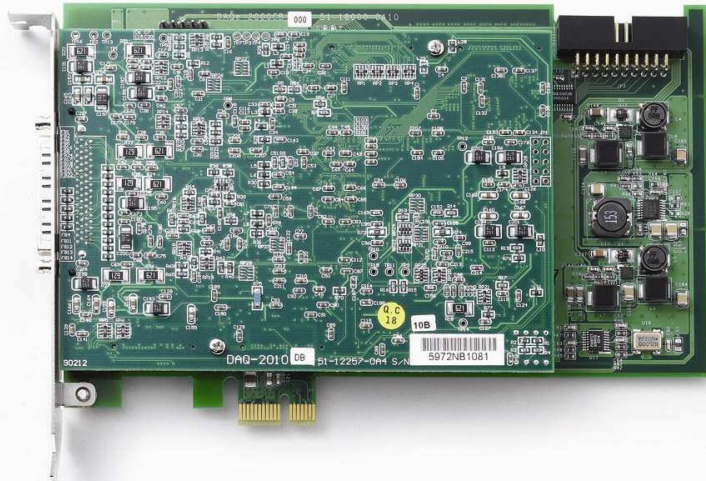
Features of PCI Express®

- Point-to-point, high-speed serial data transfer
- Scalable bandwidth, 250MBps per lane in each direction
- Power management, low power consumption
- PCI-level error handling and advanced error reporting
- Low pin count, use of small connectors for space saving, easy implementation for designers
- Compatibility with PCI at the software layers (compatible with existing OSs and device drivers)



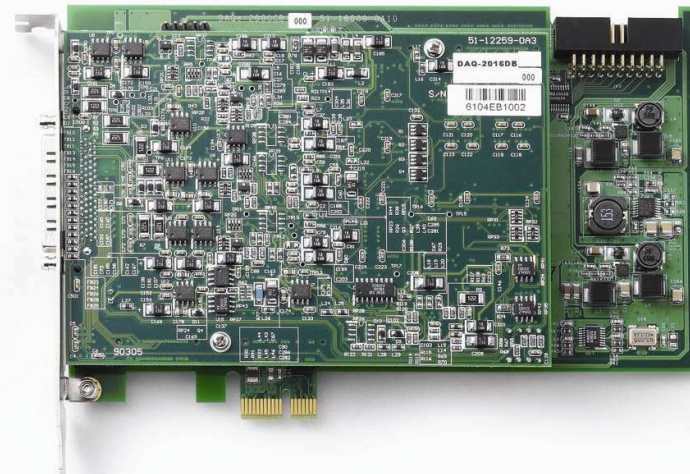
LANES	Peak Bandwidth (Duplex Mode)
X1	500MB/s
X4	2 GB/s
X8	4 GB/s
X16	8 GB/s

Introducing DAQe-2010/2016



DAQe-2010

PCI  EXPRESS[®]



DAQe-2016

Introducing DAQe-2010/2016

- The DAQe-2010/2-16 is the PCI Express® version of DAQ-2010/2016
- 14-bit, up to 2 MS/s throughput per channel (2010)
- 16-bit, up to 800 kS/s throughput per channel (2016)
- Two 12-bit, 1MS/s analog outputs
- Digital I/O, Timer/Counter
- Multiple card synchronization and auto-calibration feature

Introducing DAQe-2010/2016

	DAQe-2010	DAQe-2016
Analog Input		
Number of channels	4 DIFF (Simultaneous sampling)	
Resolution	14-bit	16-bit
Sampling rate (max.)	2 MS/s	800 kS/s
Input range (volt)	±10, ±5, ±2.5, ±1.25, ±0.625, 0-10, 0-5, 0-2.5, 0-1.25	
Analog Output		
Number of channels	2	
Resolution, update rate	12-bit, 1 MS/s per channel	
Output range (volt)	0-10, ± 10, 0-EXTREF, ±EXTREF	
Other		
Digital I/O	24-CH PIO (TTL)	
Timer/Counter	2x 16-bit (Base clock: internal 40 Mhz, external 10 Mhz)	
Connector	68-pin SCSI-VHDCI connector	
Bus	PCI Express® x1 lane	

Features

Variety of trigger functions

- Software, digital, analog and SSI trigger sources
- Post trigger, pre-trigger, delay trigger, middle trigger modes

Multiple cards synchronization via

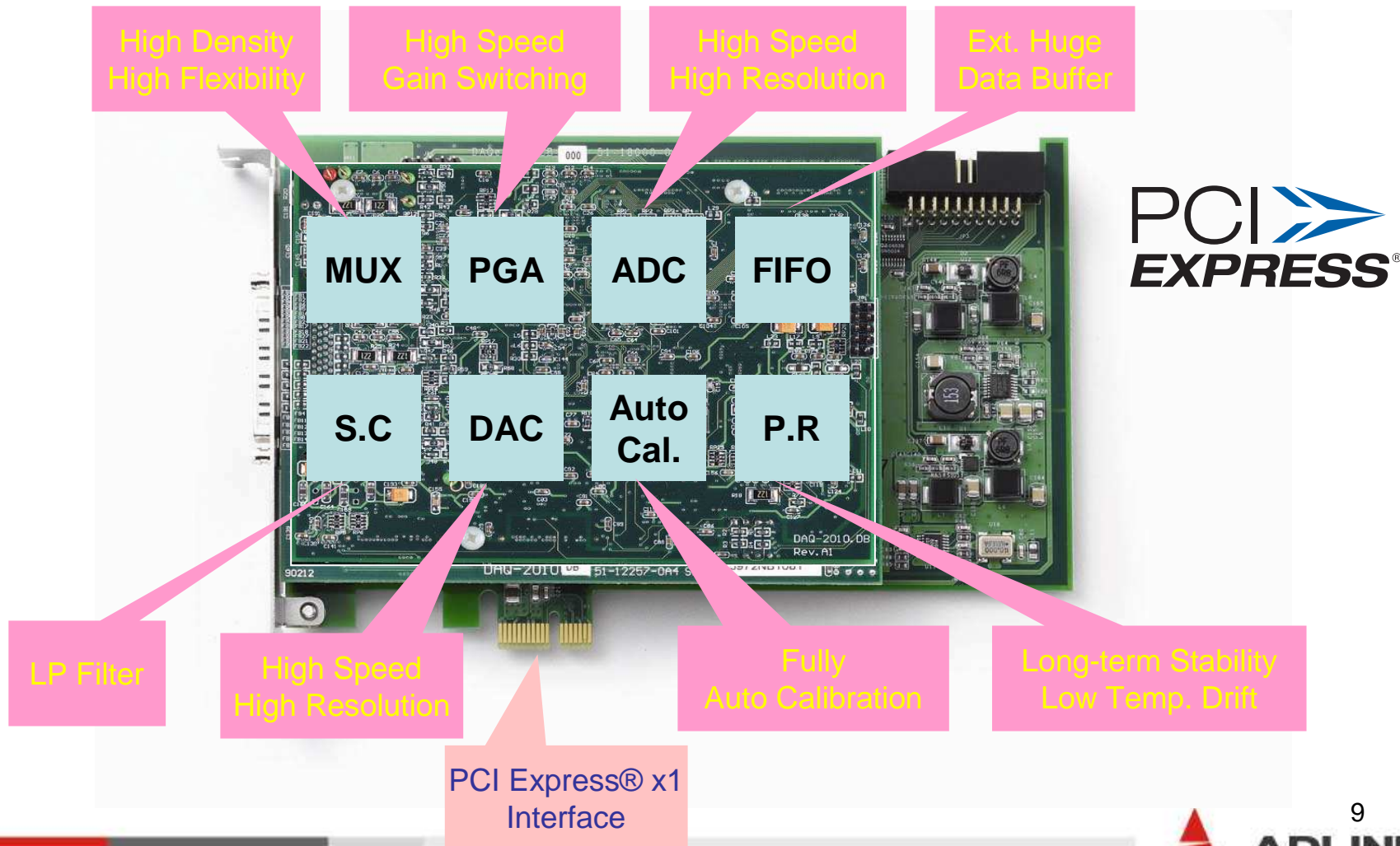
- SSI (system synchronization interface) bus

Auto-calibration

- Software calibration, on-board precision calibration reference ensures accuracy of auto-calibration

Features --

Unique Design of DAQe 2000 Series



Target customers

- Users in need of sampling several channels at the same time and are most concerned with the smallest skew between each channel
- DAQ-2010/2016 users, who want to take the advantage of PCI Express® in high-speed and dedicated bandwidth, planning to upgrade to PCI Express® interface
- DAQ-2010/2016 users, who want to maximize the use of these available PCI Express ® slots on their motherboards, planning to upgrade to PCI Express® interface
- Users in need of various trigger functions for data acquisition

Applications

- Industrial and laboratory automation
- Ultrasonic applications
- Acoustics
- Bio-medical research

OS and software support

Backward compatible with DAQ-2000 Series

Operating systems

- Windows® 2000/XP
- Linux (Red Hat and SuSE)

Language support

- Visual Basic, Visual C++, Delphi, Borland C++ Builder, VB.NET ^{New!}

Package support

- DAQ-LVIEW PnP (LabVIEW® driver)
- DAQ-LVIEW ^{New!} (Matlab® driver)

DAQBOY

Revolutionary task-oriented DAQ driver with intuitive wizard

Ordering information

Model Number	P/N	Description	Lead Time
DAQe-2010	91-18001-001	PCI Express 4-CH 14-Bit 2MS/s Simultaneous-Sampling Multi-Function DAQ Card	4 -6 weeks
DAQe-2016	91-18002-001	PCI Express 4-CH 16-Bit 800 kS/s Simultaneous-Sampling Multi-Function DAQ Card	4-6 weeks

Accessories

Model Number	P/N	Description	Lead Time
DIN-68S/1M	91-14029-010	Termination Board with a 68-pin SCSI-VHDCI Connector and DIN-Rail Mounting (Including One 1-meter ACL-10568-1 Cable)	2 weeks
ACL-SSI-2	30-10037-100	SSI bus cable for 2 devices (only for PCI version)	2 weeks
ACL-SSI-3	30-10037-300	SSI bus cable for 3 devices (only for PCI version)	
ACL-SSI-4	30-10037-000	SSI bus cable for 4 devices (only for PCI version)	



Termination board DIN-68S/1M