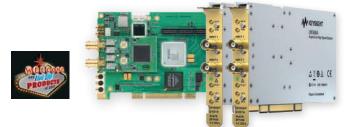
Keysight Technologies Data Converter

Selection Guide





PCI Cards



8-bit High-speed digitizers

	Channels	Bandwidth (from DC)	Max sample rate	Max memory
U1071A1	1-2 ch	150 MHz - 1 GHz	0.5 - 2 GS/s	256 MB (128 MSamples/ch)

www.keysight.com/find/u1071a

Choice of firmware options

U1071A-SAR Simultaneous multibuffer acquisition and readout firmware



0110100 01 1111114			
U1084A-DGT	Digitizer firmware with long memory acquistion		
U1084A-DGS	Digitizer firmware with simultaneous acquisition and readout		
U1084A-AVG	Real-time sampling and averaging firmware		
U1084A-TDC	Real-time signal peak detection, time-to-digital conversion and analysis firmware		

PCIe 2.0 x8 Cards





12-bit High-Speed Digitizers with Custom On-Board Processing

	Channels	Bandwidth (from DC)	Max sample rate	Max memory	
U5303A	2 ch	650 MHz - 2 GHz	1.6 - 3.2 GS/s	4 GB (1 GSamples/ch)	NEW
www.keysight.com/find/u5303a					

Choice of firmware of	tions and software tool
U5303A-DGT	Digitizer firmware
U5303A-INT	Interleaved channel sampling functionality
U5303A-AVG	Real-time averager firmware
U5303A-PKD	Real-time peak detection firmware
U5303A-TSR	Triggered simultaneous acquisition and readout
U5303A-FDK	Custom firmware capable (required to load FPGA firmware created with U5340A)
U5340A	FPGA development kit for high-speed digitizers



8-bit High-Speed Digitizers with Custom On-Board Processing

	Channels	Bandwidth (from DC)	Max sample rate	Max memory	
U5309A	2 - 8 ch	300 - 500 MHz	0.5 - 2 GS/s	2 GB	NEW

www.keysight.com/find/u5309a

Choice of firmware options and software tool

Digitizer firmware
Real-time averager firmware
Real-time peak detection firmware
Triggered simultaneous acquisition and readout
Custom firmware capable (required to load FPGA firmware created with U5340A)
FPGA development kit for high-speed digitizers

Contact our dedicated digitizers team at **digitizers@keysight.com** to find the best solution for your application, signal measurement and data processing need.

CompactPCI[®] Cards



10-bit High-Speed Digitizers

	Channels	Bandwidth (from DC)	Max sample rate	Max memory	N N N	
U1065A1	1 - 4 ch	1 - 3 GHz	2 - 8 GS/s	2 GB (1 G - 256 MSa	mples/ch)	

www.keysight.com/find/u1065a

To be discontinued May 2015. For replacement, contact digitizers@keysight.com.



Time-to-Digital Converters

	Channels	Resolution	TDC function	
U1050A1	12 ch	5 - 50 ps	Single hit	
	Channels	Resolution	TDC function	
U1051A1	6 ch	50 ps	Multi- hit	

PXIe Cards

12-bit Wideband IF Digitizer



	Channels	Bandwidth (AC/DC)	Max sample rate	Max memory		
M9202A1	1 ch	1 GHz	2 GS/s	512 MB (256 MSamples/ch)		
www.keysight.com/find/m9202a						

Choice of firmware options				
M9202A-DDC	Digital down-conversion firmware			
M9202A-BAS	Basic digitizer firmware			

PXI-H Cards

10-bit High-Speed Digitizing Scope

www.keysight.com/find/m9210a

10-bit UWB High-Speed IF Digitizer

	Channels	Bandwidth (AC/DC)	Max sample rate	Max memory
M9211A1	1 ch	3 GHz	4 GS/s	1 GB (512 MSamples/ch)
	15 11 00	4.4		

www.keysight.com/find/m9211a

Contact our dedicated digitizers team at **digitizers@keysight.com** to find the best solution for your application, signal measurement and data processing need.

AXIe Multichannel Acquisition System

Chassis

- 2-, 5-slot AXIe chassis with integrated interface.

Processor

- Optionally an embedded controller can be included in the system.

Software

- Turnkey software for multichannel visualization, or standard software support for easy integration into your measurement system.

Portable high-resolution system

Example configuration

1x M9502A	2-slot AXIe chassis (with interface to PC)
1x M9536A	Embedded AXIe controller
1x M9703A	AXIe 12-bit digitizer, 8-channel



This low power, 2-slot portable system provides 8 synchronized input channels with 12-bit resolution and a high-performance embedded host processor. The system built looks to be one single instrument. Ideal for RF and microwave applications.

High-speed data acquisition

Example configuration

1x M9505A5-slot AXIe chassis (with interface to PC)5x M9703AAXIe 12-bit digitizer, 8-channel1x U1092A-S01AcqirisMAQS single-station, master license



By including five M9703A modules, synchronized using the AXIe bus, this system offers 40 high-speed (1 GS/s) data acquisition channels that look to be one single instrument. Ideal for large scale applied physics experiments such as particle physics, microwave astronomy or hydrodynamics applications.

AXIe Modules



12-bit High-Speed Digitizer/Wideband Digital Receiver

	Bandwidth (from DC)	Max sample rate	Max memory	
M9703A 8 ch	650 MHz - 1.4 GHz	1 - 3.2 GS/s	16 GB (1 GSamples/ch)	NEW

www.keysight.com/find/m9703a

Choice of firmware options and software tool		
M9703A-DGT	Digitizer firmware	
M9703A-DDC	Wideband real-time digital downconversion firmware	
M9703A-LDC	Limited-bandwith real-time digital down-conversion firmware	
M9703A-INT	Interleaved channel sampling functionality	

Related products

M9502A	2-slot AXIe chassis	
M9505A	5-slot AXIe chassis	
M9514A	14-slot AXIe chassis	
M9536A	Embedded AXIe controller	

Contact our dedicated digitizers team at **digitizers@keysight.com** to find the best solution for your application, signal measurement and data processing need.

myKeysight

myKeysight

www.keysight.com/find/mykeysight

A personalized view into the information most relevant to you.

www.axiestandard.org

AdvancedTCA® Extensions for Instrumentation and Test (AXIe) is an open standard that extends the AdvancedTCA for general purpose and semiconductor test. Keysight is a founding member of the AXIe consortium. ATCA®, AdvancedTCA®, and the ATCA logo are registered US trademarks of the PCI Industrial Computer Manufacturers Group.

www.pxisa.org

Three-Year Warranty

PCI eXtensions for Instrumentation (PXI) modular instrumentation delivers a rugged, PC-based high-performance measurement and automation system.

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.



www.keysight.com/go/quality

Keysight Technologies, Inc. DEKRA Certified ISO 9001:2008 Quality Management System

CompactPCI® and the CompactPCI logo are registered US trademarks of the PCI Industrial Computer Manufacturers Group. PCI-SIG®, PCIe® and the PCI Express® are US registered trademarks and/or service marks of PCI-SIG.

www.keysight.com/find/modular

www.keysight.com/find/embedded-digitizers

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

Americas

Canada	(877) 894 4414
Brazil	55 11 3351 7010
Mexico	001 800 254 2440
United States	(800) 829 4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Other AP Countries	(65) 6375 8100

Europe & Middle East

United Kingdom

For other unlisted countries: www.keysight.com/find/contactus (BP-09-23-14)



This information is subject to change without notice. © Keysight Technologies, 2014 Published in USA, August 4, 2014 5989-8038EN www.keysight.com