Keysight Technologies
82351A PCIe® GPIB Interface Card

Data Sheet

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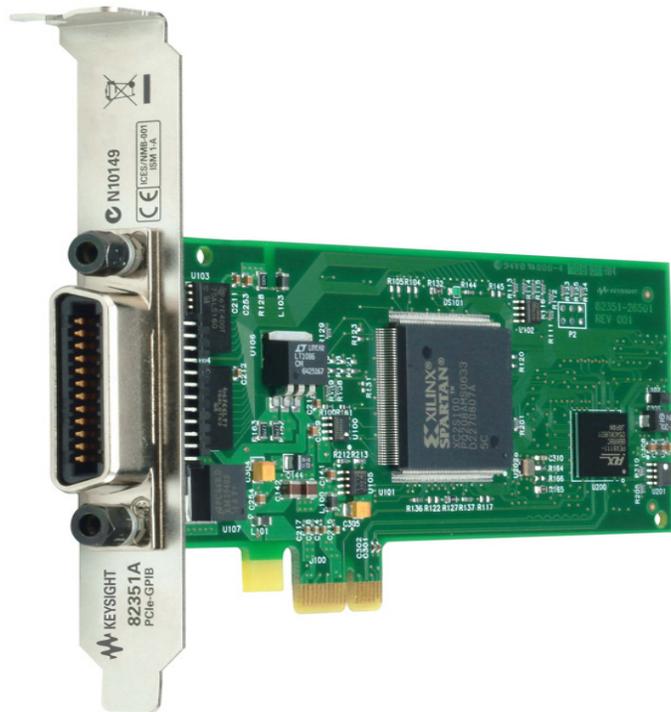
Key Features

– Compact half-height size
  (68.9 mm)
– High transfer rate of 1.4 MB/s
– High flexibility via up-plugging
  (to x4 or x8 PCIe® slots)
– 3.3 V signal level for lower power
  consumption
– Compatibility with industry
  standard PCIe® rev 1.0a and
  IEEE-488
– Interface to 14 GPIB instruments
  (max)

Recommended use

– Bandwidth-intensive test
  applications
– Adding GPIB connection
  for PCIe®-based PCs or
  workstations

High transfer rate for demanding test applications

Keysight Technologies 82351A
PCIe®-GPIB interface card is designed
for integration into next generation
PCs or workstations. It offers fast data
transmission for various demanding
test applications that require data to
be transferred to memory fast enough
without any lost or overwritten.

PCIe® (PCI Express®) is an evolution-
ary version of PCI that offers a higher
transfer rate across a low number of
wires. It is also backward-compatible
with PCI software, so you don't need
to perform any code re-configuration.
PCIe®'s powerful bus architecture
allows bi-directional data transmis-
sion, and the implementation of a new
class of test applications.

82351A Technical Specifications

General Requirements	
Minimum system requirements	Windows 2000/XP
Software required	Keysight IO Libraries Suite 14.2 and above, withthe following requirements: · Windows XP Pro or Home edition service pack 1 or later · Windows 2000 Pro service pack 4 or later and Microsoft Internet Explorer 5.01 or greater · 450 MHz Intel Pentium processor and 800x600 display with 256 colors · 128 megabytes RAM and 225 MB total hard disk space · Supported APIs include Keysight or NI VISA, SICL, VISA-COM and NI-488.2
PCI bus slot	3.3 V PCIe® slot, 32 bits
Supported standards	PCIe® rev. 1.0a IEEE 488.1 and IEEE 488.2 compatible

General Characteristics	
Power	Backplane +3.3 V PCIe®
Connectors	Standard 24-pin (IEEE-488) +1.5 V PCIe®
Maximum data rate	1.4 MB/s or better
Maximum instrument connection	14 instruments—daisy chain via GPIB
Buffering	Built-in
Configuration	Plug-and-Play
EMC and safety *	IEC 61010-1:2001 / EN61010-1:2001 IEC 61326:2002/EN61326:1997+A1:1998+A2:2001 +A3:2003 Pollution Degree 2 This product is rated for indoor use only
Warranty	1 year

Dimensions	
Width, depth and height	158.0 mm (W) x 120.8 mm (D) x 21.6 mm (H)
Weight	0.082 kg

Environmental Specifications	
Operating environment	–5 °C to 60 °C
Operating humidity	Up to 90% at 40 °C non-condensing
Storage environment	–40 °C to 70 °C
Storage humidity	Up to 90% at 65 °C non-condensing

* Additional detail and information in the Declaration of Conformity

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