

Hardware DIAdem™ 9 Supports

The following list is an overview of DIAdem supported hardware. The overview does not contain any information about applying the measurement hardware with DIAdem, but we would be glad to advise you about the best possible solution for your particular task.

You can use the DIAdem drivers with Windows 9x, XP, 2000, ME, and NT 4.0 Service Pack 6 or later

NATIONAL INSTRUMENTS Download drivers from ni.com/germany/diadem	<p>The NI-DAQ driver basically supports all the NI hardware for which virtual channels can be configured in NI-MAX (Measurement and Automation Explorer). However, the following list does not include all the hardware.</p> <p>1200 Series, 652X Devices, 653X Devices, AT-AI-16XE-10, AT-DIO-32F, AT-MIO-16DE-10, AT-MIO-16E-1, AT-MIO-16E-10, AT-MIO-16E-2, AT-MIO-16F-10, AT-MIO-16F-5, AT-MIO-16XE-10, AT-MIO-16XE-50, AT-MIO-64E-3, AT-MIO-64F-5, DAQCard-500, DAQCard-6023E, DAQCard-6024E, DAQCard-6036E, DAQCard-6062E, DAQCard-6601, DAQCard-6715, DAQCard-700, DAQCard-AI-16E-4, DAQCard-AI-16XE-50, DAQPad-6020E, DAQPad-6052E for 1394, DAQPad-6052E for USB, DAQPad-6070E, DAQPad-MIO-16XE-50, DIO-24, DIO-96, E series devices, I series devices , Lab-PC+, NEC-AI-16E-4, NEC-AI-16XE-50, NEC-MIO-16E-4, NEC-MIO-16XE-50, NI 4451 for PCI , NI 4452 for PCI , NI 4454 for PCI , NI 4472 for PXI/Compact PCI , NI 4551 for PCI , NI 4552 for PCI, PCI-6023E, PCI-6024E, PCI-6025E, PCI-6031E (MIO-64XE-10), PCI-6032E (AI-16XE-10), PCI-6033E (AI-64XE-10), PCI-6034E, PCI-6035E, PCI-6040E, PCI-6052E, PCI-6071E (MIO-64E-1), PCI-6110, PCI-6111, PCI-6115, PCI-6120, PCI-6527, PCI-6602, PCI-6608, PCI-6624, PCI-6703, PCI-6704 , PCI-MIO-16E-1, PCI-MIO-16E-4, PCI-MIO-16XE-10, PCI-MIO-16XE-50, PC-OPDIO-16 PCI-4453, PCI-4454 PXI-6011E, PXI-6023E, PXI-6024E, PXI-6025E, PXI-6030E, PXI-6031E, PXI-6031E, PXI-6034E, PXI-6035E, PXI-6040E, PXI-6052E, PXI-6070E, PXI-6115 , PXI-6120 , PXI-6527 , PXI-6602, PXI-6608, PXI-6624 , PXI-6703, PXI-6704 , VXI-AO-48XDC, VXI-DIO-128, VXI-MIO-64E-1, VXI-MIO-64XE-10; 516 and LPM Devices</p> <p>EISA-A2000; NEC-AI-16E-4, -16XE-50; NEC-MIO-16E-4, -16XE-50</p> <p>NI-CAN</p> <p>IEC-BUS: PCI-GPIB, PXI-GPIB, PCMCIA-GPIB , PC-II, PC-IIa</p> <p>FieldPoint Modular I/O System (via OPC)</p>
SCRIPT DAC DRIVER	<p>Device connection via ActiveX and GfSUDI (RS232; GPIB)</p> <p>RS232/V.24 interface: COM1 to COM9</p> <p>IEC-Bus (IEEE 488 / IEEE 625): National Instruments PCII, PCIIa und register compatibles with the IEC bus controller µPD7210: GTI (iPC 488, iPC 488L), ines ieee 488, Intelligent Instrumentation (PCI-801K, PCI-813K), Keithley (KPC-488.2, KPC-AT)</p>
SOUND-DRIVER	<p>Data input and output via your computer sound card</p>
TCP/IP	<p>Data exchange between different DIAdem PCs via TCP/IP in Intranet and Internet</p>

DIAdem has the following interfaces:

OPC: OLE for Process Control describes how to use standard protocols under Windows 9x, 2000, NT 4.0, ME, and Win NT 4.0 in the area of process automation. An overview of the listed [OPC server](#) can be found at the end of this document.

DLL Interface: The General Programming Interface (GPI) allows to integrate hardware developed by the customer or hardware that is not supported in DIAdem as a standard. The drivers are programmed as a Windows-DLL . You can download example drivers for DIAdem free of charge from ni.com/germany/diadem (programming language: C++).

Overview of the Supported Hardware from other Manufacturers

You can obtain the drivers for the following hardware from the manufacturers.

Manufacturer	Device
ADAS	ADAS Alpha 900 series (via OPC-Server)
BEDO	PCS05 (Watchdog), PCS11
CSM www.csm.de	AD-Scan, Thermo-Scan, BARO-Scan
DATA TRANSLATION	DT 2811-PGH, -PGL, -AI, -AI32, -AI64, DT 2812, A, 2814, 2817, 2819, DT 282x, DT 283x DT 300er series, DT 330 series, DT 335, DT 340, DT 3000er series, DT 3010 series; DT 9800 series; DT 01 EZ, 16, 21, 23, 24, 31, 34; DT 2801 series DT 710x (Not supported under Windows NT and 2000.)
EAGLE ELECTRIC	PC-30, B, C, D, DS, DS/4, F, FA, FAS/16, FAS/4, FS/16, FS/4, G, GA, GAS/4, GAS/16, GS/4, GS/16, PGH, PGL
GOLDAMMER www.goldammer.de	Multichoice light, Multichoice III (Triathlon), PC-DA 16 Multichoice lightPCI, Multichoice lightPCI/HS, Multichoice lightPCI/HS/16/20, Multichoice lightPCI/HS/16B, PC-DA 8 PCI, PC-DA 8 PCI HS, PC-DA 8 PCI HS/F, PC-DA 8 PCI /B, PC-DA 16 PCI, PC-DA 16 PCI HS, PC-DA 16 PCI HS/F, PC-DA 16 PCI/B, MU Count/Peri4, MU Count/Inkr4, MU Count/Inkr4/S, MU Count/Inkr4/HS, MU Count8/P, MU Count8/P, MU Count/PWM8, MU Count8/UP, MU Count8/HS, MU Count16, MU Count16/HS Multichoice Quattro/O, Module: QUHS12/100, QUHS16/40, QUDA12/20, QU/PE, QU/Inkre/4, QU/Inkre/4/S, QU/Inkre/8/S, QU/Inkre/6/32, QU/8/UP, QU/PWM, QU/Opto/16/16, QU/Rel8, QU/SHC, QU/DIFF32, QU/DIFF32/FMUX, QU/PGA1, QU/PGA2, QU/DA 12/10/4, QU/DA 16/10/4, QU/DA 16/10/8, QU/UI 12/10/4
HOTTINGER BALDWIN MESSTECHNIK (SPECTRIS)	DMC 9012/A: DMV 10, 30, 35, 50, 55 DMCplus: DV01, 10, 30, 35, 55, 60, DZ65 MGC: MC01, 30, 50, 55 UPM 60/UGR 60: UMH3201, 3202, 3204A, 3205, 3208, 320 UPM 100: UMH3251, 3252, 3253 Spider8 MGCplus
INES	IEC-Bus: IEEE 488 (cf. Script DAC Driver)
INTELLIGENT INSTRUMENTATION Download drivers from ni.com/germany/diadem	PCI 20.377W-1, -2, 20.428W-1, -2, -3 PCI 20.087W-1, 20.089W-1, 20.091W-1, 20.093W-1, PCI 20.001C-1, -2, 20.041C-2, -3, 20.098C-1, -1B, -2, -2F; PCI 20002M-1, 20003M-2/4, 20004M-1, 20005M-1, 20006M-1/2, 20007M-1A, 20019M-1, 20020M-1, 20021M-1, 20023M-1, 20031M-1, 20341M-1, 20363M-1, 20364M-1 IEC-Bus: PCI-801K, PCI-813K (cf. Script DAC Driver) EDAS-1002E-1
IPETRONIK	KIM/SIM modules (via CAN bus)
JÄGER	Adwin,light, gold; Adwin pro
KEITHLEY INSTRUMENTS	DAS 1201, 1202, 1401, 1402, 1601, 1602, 16, 16F, 16G1, 16G2 IEC-Bus: KPC-488.2, KPC-AT (cf. Script DAC Driver)
MEC	MEC 1000: SP02/08/20, SP1T10/T20, Strain Gauge, Thermo, Current, PCB, Pt100, Carrier frequency, Frequency
MICROSTAR	DAP800, 801, 1200, -a, -e, 1216a, -e, 2400, -a, -e, 2416a, -e, 3000a, 3200a, -e; DAP3216a, 4200; 3400a
NANO SYSTEMS	Inccon counter boards: 1/HR16, 1/SR16, 1/HR32, 1/SR32; 2/HR16, 2/SR16, 2/HR32, 2/SR32; 3/HR16, 3/SR16; 4/HR16, 4/SR16

Manufacturer	Device
PEEKEL www.mdi-dd.de	Autolog
SENG	AnaDigIO
SIEMENS	S5 OPC, and S7 OPC server (via OPC Client)
SOFTING	Softing Application Controller 2 (CAN AC2, CANCard)
SOLARTRON (MESTEC)	IMP system with the module types 1A, 1B, 1C, 1H
SPECTRA	ADAM module series 4000/5000 (via OPC Server)
VECTOR	CAN-DB for CANcardX
	CANape
YOKOGAWA	Darwin series

OPC Server with DIAdem™ as OPC Client

OPC means *OLE for Process Control* and describes how to use standard protocols under Windows 9x, 2000, ME, and Win NT 4.0 in the area of process automation. DIAdem as an OPC client supports the connection to one and more OPC servers for access to hardware and field busses.

The following list is only an overview of the OPC servers that have been tested with DIAdem as the OPC client, from various hardware manufacturers. It is not a complete list. Ask your manufacturer whether there is an OPC server for devices that are not included in the list.

NATIONAL INSTRUMENTS	FieldPoint modular I/O system, NI-DAQ – Driver library for NI hardware, Lookout, LabVIEW™ DSC
ADAS	OPC server for Alpha 900 series
AG-E	Agent OPC server version 1.0a; PC plug in board for die field busses: Profibus (to 12 Mbaud), Interbus, CANopen, DeviceNet, Siemens protocols 3964/R and MPI, Modbus RTU/ASCII
APPLICOM	OPC server (OPC server version 1.0A, 2.0) PC plug in board for several field busses and industrial networks: Seriell: boards - PCI1000, PC2000, PCI4000 via Kit 4000TD - 3964/3964R, AS511, Batibus, Data Link, DF1, Jbus, Modbus, PPI+ PPI, Saia-Bus, SNP-X, Sucoma, Sysmac Way, TIDir, Uni-Telway, User specific Profi bus boards: PCI1500PFB (DP, FDL S5 series, FMS, MPI, PPI+, PPI, S7 protocol) PCI1500S7 (MPI, PPI+, PPI, S7 protocol) PCI2000 (PFB, DP 12MBaud) Ethernet boards: PCI2000ETH (Ethway, Sinec H1, Industrial Ethernet, TCP/IP) Interbus boards: PCI2000IBS (Interbus-S Master) WorldFIP boards: PCI2000FIP (Fipway)
COMSOFT	DK3964K/RK512, Sinec-L1, Unidrv, LSV2, USV2, HDLC UNC, LAP-B, Profi bus (L2, FMS, DP/DPV1)
FACTORYSOFT	FactorySoft OPC toolkit / Demo server
FISHER ROSEMOUNT	DeltaV OPC server
GESYTEC	Easylon
HILSCHER	Profibus-DP, -FMS; Interbus, CANopen, DeviceNet, ControlNet
IFAK	isOPCMultiServer für isProMultiboard, isProPCMCIA, isProUSB, isSpidoFast
INAT	Connecting S5 and S7 via TCP/IP & H1, AS511 (RS232C), MPI (CP or RS232)
IOTECH	TempScan, MultiScan, ChartScan, NetScan
KEPWARE	Allen Bradley SLC500/MicroLogix, Analog Devices 6B series, AnchorPLC , Aromat/Matsushita Computer Link, Contrex (CX1000, M series), Cutler Hammer , GE Fanuc (CCM, Ethernet, SNP, SNPX), Idec Computer Link, Kessler-Ellis products Keptrol, Koyo PLCDirect (Net, Ethernet, K sequence), Fischer & Porter Micro-DCI, Modbus (ASCII, Plus, RTU Serial, RTU Slave; Modicon Modbus Ethernet), Endress+Hauser MemoLog, Mitsubishi (A Series, FX, FX NET), Omron Host Link, Partlow ASCII, Siemens (S7-200, Simatic 505), SquareD Serial, Intelligent Actuator Super SEL, Telemecanique Unitelway, Tiway , Toshiba (Computer Link, G3 Drive), Toyopuc (PC2 Ethernet, PC2 Computer Link, PC3 Ethernet)
PHOENIX CONTACT	OPC Call server for Interbus
ROCKWELL SOFTWARE	RSLinx (OPC server version 2.0)
SIEMENS	Simatic Net DP: Profibus OPC server for DP (S7/S5 functions via Profibus, Industrial Ethernet/H1) Simatic Net Profibus FMS
SOFTING	4Control (OPC server version 1.0), Profibus DP server, CANopen server (CANpci)
SPECTRA	ADAM module series 4000/5000
USDATA	FactoryLink (OPC server version 6.5)