



Testeract

HAL Device Types And Models_x64

Testeract HAL Devices & Models

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Device	Count
Types	32
Models	101
Instruments	576
Instruments w Generic	576

Amplifier	Instruments Supported
Agilent 33502	33502A
Simulation	

Analog Input	Instruments Supported
Ethernet Modbus	Generic TCP NI Modbus Instruments
NI DAQmx	PXI, C Series, CompactDAQ for Voltage, Current, Thermocouple
Simulation	

Analog Out	Instruments Supported
Ethernet Modbus	Generic TCP NI Modbus Instruments
NI DAQmx	PXI, C Series, CompactDAQ for Voltage, Current
Simulation	

Attenuator	Instruments Supported
Simulation	
Weinschel 83xx	API Weinschel 8331, 8321, 8320, and related models

Camera	Instruments Supported
NI IMAQdx, Xenics Bobcat	GigE or CameraLink 640 Series
NI IMAQdx	USB, Camera Link, GigE, Firewire (IEEE 1394), NI Camera Link Framegrabbers, NI-1772, NI-1772C, NI-1774, NI-1774C, NI-1776, NI-1776C, NI-1778
Simulation	

ColorSensor	Instruments Supported
NU-EP1	LR-W
Simulation	

Comm Bus	Instruments Supported
NI Serial	Generic VISA Serial COM bus
Simulation	

DC Power Supply	Instruments Supported
Agilent 3631A	E3631A, E3632A, E3633A, E3634A
DAQmx Analog	Generic NI DAQ AI/AO Voltage, AI/AO Current
IVI	Generic DCPower Interchangeable Virtual Instruments with over 900 compliant instruments support DC Power (https://www.ni.com/en-us/support/downloads/instrument-drivers.html)
Keithley 2230G-30-6	2220-30-1, 2220J-30-1, 2230-30-1, 2230J-30-1
Keysight E3640A	E3640, E3641, E3642, E3643, E3644, E3645, E3646, E3647, E3648, E3649
Keysight N5700A	N5700 Series DC Power Supplies
Keysight N6700	N6700A, N6700B, N6701A, N6702A, N6705A, N6705B, N6700C, N6701C, N6702C, N6705C
Keysight N7900	N6950A, N6951A, N6952A, N6953A, N6954A, N6970A, N6971A, N6972A, N6973A, N6974A, N6976A, N6977A, N7950A, N7951A, N7952A, N7953A, N7954A, N7970A, N7971A, N7972A, N7973A, N7974A, 7976A, N7977A
Manual DC Power	Manually prompt the user for Get/Set functionality to control any DC Power Instrument
NI DC Power	Communicates with all currently supported NI programmable power supplies
NI RMX 410x	RMX-4101 (RMX20-10-LAN), RMX-4102 (RMX20-20-LAN), RMX-4104 (RMX20-40-LAN), RMX-4101 (RMX36-6-LAN), RMX-4102 (RMX36-12-LAN), RMX-4104 (RMX36-24-LAN), RMX-4101 (RMX60-3.5-LAN), RMX-4102 (RMX60-7-LAN), RMX-4104 (RMX60-14-LAN), RMX-4101 (RMX100-2-LAN), RMX-4102 (RMX100-4-LAN), RMX-4104 (RMX100-8-LAN)
Remote Server	Control your DCPower Device from the HAL Tools Remote Server over TCP protocol. Requires HAL Tools Remote Server package
Rigol DP7xx	RIGOL TECHNOLOGIES DP700 Series (DP711, DP712)
Rigol DP8xx	RIGOL TECHNOLOGIES DP800 Series (DP811, DP811A, DP813, DP813A, DP821, DP821A, DP822, DP822A, DP831, DP831A, DP832, DP832A)
Simulation	
Sorensen XG	Ametek 850W Models (XG6-110, XG8-100, XG12-70, XG20-42, XG33-25, XG40-21, XG60-14, XG80-10.5, XG100-8.5, XG150-5.6, XG300-2.8, XG600-1.4), Ametek 1500W and 1700W (XG6-220, XG8-187.5, XG8-200, XG12.5-120, XG12-140, XG20-76, XG20-84, XG30-50, XG33-50, XG40-42, XG60-25, XG60-28, XG80-19,

	XG80-21, XG100-15, XG100-17, XG150-10, XG150-11.2, XG300-5, XG300-5.6, XG600-2.6, XG600-2.8)
TDK Lambda Z+	TDK-LAMBDA,Z+ Series limited to VISA Comms, Z10-20, Z20-10, Z100-2, Z160-1.3, Z320-0.65, Z650-0.32, Z60-3.5, Z36-6, Z10-40, Z20-20, Z100-4, Z160-2.6, Z320-1.3, Z650-0.64, Z650-0.64, Z60-7, Z36-12, Z10-60, Z20-30, Z60-10, Z100-6, Z160-6, Z160-4, Z320-2, Z36-18, Z650-1, Z10-72, Z20-40, Z100-8, Z160-5, Z320-2.5, Z650-1.25, Z375-2.2, Z60-14, Z36-24

DMM (Digital Multimeter)	Instruments Supported
Keysight 3446X	34460A, 34461A, 34465A, 34470A
NI	PXI-4065, PCI-4065, PCIe-4065, USB-4065, PXI4070, PCI-4070, PXI-4071, PXI-4072, PXIe-4080, PXIe-4081, PXIe-4082
Simulation	

Digital Input	Instruments Supported
Ethernet Modbus	Generic NI Modbus over TCP supporting Digital Input
NI DAQmx	Generic DAQmx PXI, C Series, CompactDAQ supporting Digital Input
PIOD	NI-Industrial Communications for EtherNet/IP supporting Digital Input
Simulation	

Digital Output	Instruments Supported
Ethernet Modbus	Generic NI Modbus over TCP supporting Digital Output
NI DAQmx	Generic DAQmx PXI, C Series, CompactDAQ supporting Digital Output
PIOD	NI-Industrial Communications for EtherNet/IP supporting Digital Output
Simulation	

Electronic Load	Instruments Supported
Keysight N6700	N6731A, N6731B, N6732A, N6732B, N6733A, N6733B, N6734A, N6734B, N6735A, N6735B, N6736B, N6741B, N6742A, N6742B, N6743A, N6743B, N6744A, N6744B, N6745A, N6745B, N6746B, N6773A, N6774A, N6775A, N6776A, N6777A, N6751A, N6752A, N6753A, N6754A, N6755A, N6756A, N6761A, N6762A, N6763A, N6764A, N6765A, N6766A, N6781A, N6782A, N6783A, N6784A, N6785A, N6786A, N6791A, N6792A
Simulation	

Function Generator	Instruments Supported
Agilent 33512B	33521A, 33522A, 33522B, 33521B, 33520B, 33519B, 33511B, 33510B, 33509B, 33611A, 33612A, 33621A, 33622A, Keysight EDU 33211A
Keysight U 2761A	U2761A
NI 5402	5402, 5404, 5406, 5412, 5421, 5422, 5441, 5442, 5451
Simulation	
Tektronix AFG 31000	AFG31021, AFG31022, AFG31051, AFG31052, AFG31101, AFG31102, AFG31151, AFG31152, AFG31251, AFG31252

HSDIO (High Speed Digital IO)	Instruments Supported
NI	PXI Digital Waveform Instruments or Digital Waveform Devices (PXI/PCI-6541, PXI/PCI-6542, PXIe-6544, PXIe-6545, PXIe-6547, PXIe-6548, PXI/PCI-6551, PXI/PCI-6552, PXIe-6555, PXIe-6556, PXI/PCI-6561, PXI/PCI-6562)

HVT	Instruments Supported
RemoteServerHVT	Used to run the 32-bit CirrisTester HAL class
Simulation	

Hygrometer	Instruments Supported
HC2A (Rotronic Probe)	HC2A-S3A, HC2A-SM, HC2A-S, HC2A-S3, HC2A-SH, HC2A-S3H
Simulation	

I2C SPI JTag	Instruments Supported
NI 845x	8451, 8452
Simulation	

Impedance Analyzer	Instruments Supported
Agilent E499x	E4990A, E4991B
Simulation	

Laser	Instruments Supported
Hi-tronics	High Power 1550nm
Simulation	

Linear Actuator	Instruments Supported
IAI RCP6CR	RCP6CR-SA6C, RCP6SCR-SA6C
Simulation	

Network Analyzer	Instruments Supported
Keysight PNA Series	N5221A, N5222A, N5224A, N5225A, N5227A, N5231A, N5232A, N5234A, N5235A, N5239A, N5241A, N5242A, N5244A, N5245A, N5247A, N5249A, N5251A, N5264A
Rohde and Schwarz VNA Simulation	ZNA, ZNB, ZNC, ZND, ZNBT

Oscope (Oscilloscope)	Instruments Supported
Keysight 90000 Series	DS091304A, DS091204A, DS090804A, DS090604A, DS090404A, DS090254A, DSA91304A, DSA91204A, DSA90804A, DSA90604A, DSA90404A, DSA90254A, DS09104A, DS09254A, DS09404A, MS09104A, MS09254A, MS09404A, DS09064A, MS09064A, DS093004L, DSOX91604A, DSOX92004A, SOX92504A, DSOX92804A, DSOX93204A, DS09024H, DS09054H, DS09104H, DS09204H, DSOS054A, DSOS104A, DSOS204A, DSOS254A, DSOS404A, DSOS604A, DSOS804A, MSOS054A, MSOS104A, MSOS204A, MSOS254A, MSOS404A, MSOS604A, MSOS804A, DSAX96204Q, DSOX96204Q, DSAX95004Q, DSOX95004Q, DSAX93304Q, DSOX93304Q, DSAX92504Q, DSOX92504Q, DSAX92004Q, DSOX92004Q
Lecroy 94xx	9420
NIScope	PCI-5105, PCI-5114, PCI-5122, PCI-5124, PCI-5142, PCI-5152, PCI-5153, PCI-5154, PXI-5105, PXI-5112, PXI-5114, PXI-5122, PXI-5124, PXI-5142, PXI-5152, PXI-5153, PXI-5154, PXI-5900, PXIe-5122, PXIe-5185, PXIe-5186, PXIe-5622, PXIe-5105, PXIe-5114, PXIe-5160, PXIe-5162, PXIe-5110, PXIe-5111, PXIe-5113, PXIe-5163, PXIe-5164, PXIe-5170, USBUSB-5132, USB-5133
Simulation	

Power Meter	Instruments Supported
Keysight N1913+	E4416A, E4417A, E4418B, E4419B, N1913A, N1914A
Keysight N191x	N1911A, N1912A, N8262A
Simulation	

RFSG (RF Signal Generator)	Instruments Supported
IVI	Generic NI IVI Compliance for RFSG Devices include Keysight Technologies (E8247C, E8257C, E8257D, E8267C, E8267D, E8241A, E8244A, E8251A, E8254A, N5181A, N5182A, N5183A, N5161A, N5162A, N5171B, N5172B, N5181B, N5182B, N5173B, N5183B, M9383A, N5191A, N5193A, N5194A, E4428C, E4438C, N5182N, N5183N, E8257N, E8663B, E8663D, N5166B), RIGOL Technologies (DSG830 DSG815, DSG3060, DSG3030), Rohde & Schwarz (SMA100B, SMW200A, SMBV100A, SMU200A, SMATE200A, SMJ100A, AMU200A), Textron Systems (RFS340), TTI Ltd (TGR2051 TGR2053)
Keysight PSGMXG Series	N5181A, N5182A, N5183A, N5161A, N5162A, E8241A, E8244A, E8251A, E8254A, E8247C, E8257C, E8267C, E8257D, E8267D, N5171B, N5172B, N5181B, N5182B, N5173B, N5183B
Rohde and Schwarz SMB	VXI SMB100A, SMC100A
Rohde and Schwarz SMX Clock	SMA100B (FW 4.70), SMB100B (FW 4.70)
Rohde and Schwarz SMX	SMA100B (FW 4.70), SMB100B (FW 4.70)
Rohde and Schwarz Signal Generator	SMW200A (FW 4.80), SMBV100B (FW 4.80), SMBV100A (FW 4.80), SMU200A, SGS100A, SGT100A, SMM100A (4.90)
Simulation	

Resistor	Instruments Supported
Simulation	

Robot Arm	Instruments Supported
Meca500	TCP with either R3 (FW 9.2.x), R4 (FW 9.2.x)
Simulation	

SMU (Source Measuring Unit)	Instruments Supported
NI 41xx	RMX-4101 (RMX20-10-LAN), RMX-4102 (RMX20-20-LAN), RMX-4104 (RMX20-40-LAN), RMX-4101 (RMX36-6-LAN), RMX-4102 (RMX36-12-LAN), RMX-4104 (RMX36-24-LAN), RMX-4101 (RMX60-3.5-LAN), RMX-4102 (RMX60-7-LAN), RMX-4104 (RMX60-14-LAN), RMX-4101 (RMX100-2-LAN), RMX-4102 (RMX100-4-LAN), RMX-4104 (RMX100-8-LAN)
Simulation	

Screw Driver	Instruments Supported
Atlas Copco	MT Focus 6000
Simulation	

SpecAn (Spectrum Analyzer)	Instruments Supported
Rohde and Schwarz FSWP	FSW (FW 4.90), FSWP (FW 2.00), FSV (FW 3.40), FSVA (FW 3.70), FSVR (FW 1.63), FPS (FW 1.60), FSV3000 (FW 1.80), FSVA3000 (FW 1.80)
Simulation	

Switch	Instruments Supported
Keysight 34970A	Agilent 34970, Agilent 34972A
Racal 1257A	Racal Instruments 1257A Family
Simulation	
Simulation Racal 1257A	
SwitchExec	IVI Compliant type of switching modules, general-purpose, multiplexer, or matrix modules such as PXI, VXI, GPIB, or SCXI

TMYTEKBox	Instruments Supported
BBoxBBoard	BBoard 5G 28GHz, BBoard 5G 39GHz, BBox Lite 5G 28GHz, BBox Lite 5G 39GHz, BBox One 5G 26GHz, BBox One 5G 28GHz, BBox One 5G 39GHz
SimBox	Simulation Mode
UDBox	UDBox 5G

USRP	Instruments Supported
NI-USRP	2900, 2901, 2920, 2921, 2922, 2930, 2932, 2940, 2942, 2943, 2944, 2945, 2950, 2952, 2953, 2954, 2955, X410 (No USRP-RIO support).
Simulation	