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SPECIFICATIONS NI PXIe/PCIe-6535/6536/6537 and NI PCIe-6535B/6536B/6537B

10/25/50 MHz Digital I/O Device

このドキュメントには、日本語ページも含まれています。

This document provides specifications for NI PXIe/PCIe-6535/6536/6537 (NI 6535/6536/6537) and NI PCIe-6535B/6536B/6537B (NI 6535B/6536B/6537B) digital I/O devices.

Specifications are subject to change without notice. For the most recent specifications visit ni.com/manuals.



Caution All values were obtained using a 1 m cable (SHC68-C68-D4 recommended). Performance specifications are not guaranteed when using longer cables.

Warranted specifications are warranted not to exceed these values within certain operating conditions and include the effects of temperature and uncertainty unless otherwise noted.

Typical specifications are unwarranted values that are representative of a majority (3σ) of units within certain operating conditions and include the effects of temperature and uncertainty unless otherwise noted.

Nominal specifications are unwarranted values that are relevant to the use of the product and convey the expected performance of the product.

All specifications are *Typical* unless otherwise noted. These specifications are valid within the operating temperature range. All warranted specifications will be specifically denoted as *Warranted* in the comment section of the specification.



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Channel Specifications

Specification	Value	Comments
Number of data channels	32	—
Direction control of data channels	Per channel	_
Number of Programmable Function Interface (PFI) channels	6	Refer to the <i>Waveform</i> <i>Specifications</i> section for more information about the PFI channels.
Direction control of PFI channels	Per channel	_

Specification	Va	Value		
Number of	PXI Express	PCI Express	PXI_TRIG7 is not	
RTSI/PXI trigger channels	10 (PXI_TRIG<07>, PXIe_DSTARB, PXIe_DSTARC)	8 (RTSI <07>)	supported as input trigger.	
Direction control of RTSI/PXI trigger channels	RTSI <07>/PXI_TRIG<07>: Bidirectional; per channel PXIe_DSTARB: Unidirectional input (PXI Express only) PXIe_DSTARC: Unidirectional output (PXI Express only)			
Number of Sample clock terminals	3 bidirectional clock terminals (PFI 4, PFI 5, RTSI 7) 1 exported clock terminal (PXIe_DSTARC) (PXI Express only) 2 clock source terminals (PXIe_DSTARA, PXI_STAR) (PXI Express only)		Refer to <i>Timing</i> <i>Specifications</i> for more information about clock sources.	

Generation Channels (Data and PFI <0..5> Channels)

Specification		Value			
Generation voltage families	2.5 V, 3.3 V (5	2.5 V, 3.3 V (5 V TTL compatible)			_
Generation signal type	Single-ended	Single-ended			_
Generation	Low Volta	ge Levels	High Volta	ige Levels	Warranted.
voltage levels	Typical	Maximum	Minimum	Typical	Into high impedance
2.5 V	0.0 V	0.1 V	2.4 V	2.5 V	load.
3.3 V	0.0 V	0.1 V	3.2 V	3.3 V	Production tested for data
5.0 V	0.0 V	0.1 V	3.2 V	3.3 V	channels.
Output impedance	50 Ω , nominal	50 Ω , nominal			
Maximum DC drive strength	±16 mA at 2.5 V ±32 mA at 3.3 V				_
Data channel driver enable/disable control	Per channel	Per channel			

Specification	Value	Comments
Channel power-up state	Software programmable (Tristate, 0, or 1 at 2.5 V or 3.3 V)	Channel data is typically valid 1.5 s after the power-up state is set.
Output protection	The device can indefinitely sustain a short to any voltage between 0 V and 5 V.	

Acquisition Channels (Data and PFI <0..5> Channels)

Specification	Va	ue	Comments
Acquisition voltage families	2.5 V, 3.3 V (5 V TTL compatible)		—
Acquisition voltage levels	Low Voltage Thresholds Maximum	High Voltage Thresholds Minimum	Warranted. Production
2.5 V	0.75 V	1.75 V	tested for data channels.
3.3 V	1.00 V	2.30 V	
5.0 V	1.00 V	2.30 V	
Input impedance	High-impedance (50 k Ω to grou	nd)	—
Input protection	-1 V to +6 V		Diode clamps in the design may provide additional protection outside this range.

Sample Clock

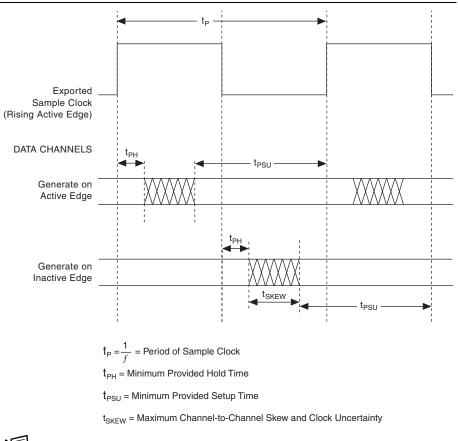
Specification	V	/alue	Comments
Sample clock sources	 On Board Clock (Sample Clock Timebase with divider) PFI <45> PXI_TRIG7 (PXI backplane)[†] RTSI 7 (RTSI bus)^{1‡} PXI_STAR (PXI backplane)[†] PXIe_DSTARA (PXI backplane)[†] 		Refer to the <i>Clocking</i> diagram in the <i>NI 6535/6536/6537 and</i> <i>NI 6535B/6536B/6537B</i> <i>Help</i> for an illustration of the various clock and timebase sources.
Sample clock timebase sources	 PARDSTARGY (PAP obckplane) 200 MHz Timebase (internal oscillator) PFI <05> PXI_TRIG<06> (PXI backplane)[†] RTSI <07> (RTSI bus)[‡] PXIe DSTARB (PXI backplane)[†] 		
On Board Clock frequency range	NI 6535/6535B : 48 Hz to 10 MHz Configurable to 200 MHz/N; $20 \le N \le 4,194,307$ NI 6536/6536B : 48 Hz to 25 MHz Configurable to 200 MHz/N; $8 \le N \le 4,194,307$ NI 6537/6537B : 48 Hz to 50 MHz Configurable to 200 MHz/N; $4 \le N \le 4,194,307$		_
Imported Sample clock	PFI <45> PXIe_DSTARA [†]	PXI_TRIG7 [†] RTSI 7 [‡]	_
frequency range	NI 6535/6535B: NI 6535/6535B: 0 Hz to 10 MHz 0 Hz to 10 MHz NI 6536/6536B: NI 6536/6536B and 0 Hz to 25 MHz NI 6537/6537B: NI 6537/6537B: 0 Hz to 25 MHz 0 Hz to 50 MHz 0 Hz to 25 MHz		
[†] PXI Express onl [‡] PCI Express onl	-		

Specification		v	/alue		Comments
Minimum detectable	PFI <45>	PXIe_D	STARA†	PXI_TRIG7 [†] RTSI 7 [‡]	Positive and negative pulse width at voltage
Sample clock pulse width	8 ns	15 ns	/6535B /6536B: /6537B:	15 ns	thresholds.
Imported timebase clock	PFI <0 PXIe_DST/		Р	XI_TRIG7 [†] RTSI 7 [‡]	_
frequency range	NI 6535/6535 0 Hz to 10 MH		NI 6535 0 Hz to	/6535B : 10 MHz	
	NI 6536/6536 0 Hz to 25 MH		NI 6536/6536B and NI 6537/6537B: 0 Hz to 25 MHz		
	NI 6537/6537 0 Hz to 50 MH				
Minimum detectable	PFI <4 PXIe_DST/		Р	XI_TRIG7 [†] RTSI 7 [‡]	Positive and negative pulse width at voltage
imported timebase clock pulse width	6.5 ns		15 ns		thresholds.
Exported	Generat	ion	A	cquisition	_
Sample clock destinations	 PFI 4 RTSI 7[†] PXI_TRIG PXIe_DST 		PFI 5		
Exported Sample clock duty cycle	Internal Sample clock or divided-down timebase: 33% to 67% Imported Sample clock: Limited by input duty cycle		Nominal.		
[†] PXI Express onl [‡] PCI Express onl	[†] PXI Express only [‡] PCI Express only				

Pattern Generation Timing (Data and PFI 4 Channels)

Specification	Va	lue	Comments
Maximum data channel toggle rate	NI 6535/6535B: 5.0 MHz NI 6536/6536B: 12.5 MHz NI 6537/6537B: 25.0 MHz		_
Data position	Data Channels	PFI Channels	Relative to Sample
modes	Active edge, Inactive edge	Active edge	clock; Active edge may be rising or falling.
Minimum	PXI Express	PCI Express	t_P is the Sample clock
provided hold time with respect to PFI 4 (t _{PH})	750 ps	1.1 ns	interval; values assume the sample is generated and acquired on the
Minimum provided setup time with respect to PFI 4 (t _{PSU})	Sample clock interval (t _P) - 5.35 ns	Sample clock interval (t _P) - 5 ns	same clock edge; includes maximum channel-to-channel skew; valid for all data.

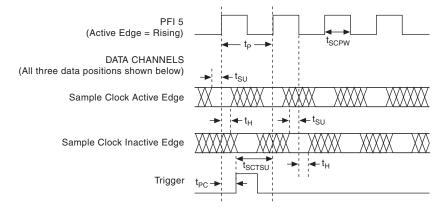




Note Provided setup and hold times include channel-to-channel skew and jitter.

Pattern Acquisition Timing (Data and PFI 5 Channels)

Specification	Value	Comments
Setup time with respect to PFI 5 (t _{SU})	NI 6535/6536/6537 Rev C* or later and NI 6535B/6536B/6537B: 2.8 ns NI PCIe-6535/6536/6537 Rev B*: 2.0 ns	Includes maximum data channel-to- channel skew; valid for data and all triggers
Hold time with respect to PFI 5 (t _H)	NI 6535/6536/6537 Rev C* or later and NI 6535B/6536B/6537B: 1.5 ns	except the Start trigger when using the Sample Clock sample timing type. * Refer to assembly number sticker on device for revision information
Setup time of triggers with respect to PFI 5 (t _{SCTSU})	15 ns	Nominal.
Trigger delay from PFI 5 to trigger edge (t _{PC})	9 ns	Nominal.



 t_{SU} = Setup Time with Respect to PFI 5

 t_{H} = Hold Time with Respect to PFI 5

 $t_{P} = \frac{1}{f}$ = Sample Clock Period

 t_{SCPW} = Minimum Detectable Sample Clock Pulse Width

t_{PC} = Trigger Delay from PFI 5 to Trigger Edge*

t_{SCTSU} = Setup Time of Trigger with Respect to PFI 5*

*Sample Clock Sample Timing Type only.

Handshaking

Specification	Value	Comments
Asynchronous handshaking modes	Handshake (8255) sample timing type	8255 emulation equivalent.
Synchronous handshaking modes	 Burst sample timing type Pipelined Sample Clock sample timing type 	—
Control line polarity	 Active high Active low 	—
Programmable delay resolution for Handshake sample timing type	20 ns	—

Change Detection

Specification	Value	Comments
Change detection resolution	Sample clock period	—
Sources	P0.<07>, P1.<07>, P2.<07>, P3.<07>	Per data
Valid sample position	 Active edge Inactive edge 	channel selectable.
Valid changes	 Don't care Rising edge Falling edge Rising or falling edge 	

Waveform Specifications

Memory

Specification	Value	Comments
Onboard memory size	2,048 samples (S)	First-in first-out based, regardless of port size.
Transfer type	 DMA Programmed I/O (On Demand sample timing type only) 	—
Generation waveform quantum	Waveform size must be an integer multiple of 1 S.	—
Acquisition minimum buffer size	2 S	_

Triggers

Specification		Value		Comments
Supported triggers (by sample	Sample Timing Type	Acquisition	Generation	Generation operations do not support
timing type)	Sample Clock	Start, Reference	Start	pattern match triggers.
	Pipelined Sample Clock	Pause, Start, Reference	Pause, Start	
	Burst Handshake	Pause (not including the pattern match type trigger)	Pause	
	Handshake	Handshake	Handshake	
	Change Detection	Start	N/A	
Sources	 PFI <05> (DDC connector) PXI_TRIG<06> (PXI backplane)[†] RTSI <07> (RTSI bus)[‡] PXIe_DSTARB (PXI backplane)[†] Pattern match (Acquisition sessions only) Disabled (Do not wait for a trigger) 		_	
Trigger detection	 Start Trigger (Edge detection: rising or falling; Pattern match: match or does not match) Pause Trigger (Level detection: high or low; Pattern match: match or does not match) Reference Trigger (Edge detection: rising or falling; Pattern match: match or does not match) Handshaking Trigger (Interlocked: high or low) 			_
Destinations	2. PXI_TRIG RTSI <07	(DDC Connector) <07> (PXI backplane) [†] > (RTSI bus) ARC (PXI backplane) [†]		—

Specification		Value		Comments
Delay from Pause trigger to	Minimum	Generation Maximum	Acquisition	Use the Data Active event
Paused state (t _{P2S})	6 Sample clock cycles + 6.7 ns	NI PCle-6535/6536/6537: 7 Sample clock cycles + 15.4 ns NI PXle-6535/6536/6537: 7 Sample clock cycles + 17 ns NI 6535B/6536B/6537B: 7 Sample clock cycles + 65 ns	Synchronous to the data	during generation operations to determine on a sample-by- sample basis when the NI device has entered the Paused state. Pause trigger only supported by Pipelined Sample Clock sample timing type.
[†] PXI Express only				
[‡] PCI Express only			1	i
Delay from trigger to digital		Generation		Nominal.
data output (t_{T2D})	Minimum	Maximum	Acquisition	
	65 ns	NI 6535/6536/6537: 1 Sample clock cycle + 130 ns	N/A	
		NI 6535B/6536B/6537B: 1 Sample clock cycle + 150 ns		
Minimum detectable trigger pulse width (t _W)	Type Tr Sample Tim	Clock Sample Timing riggers and Pipelined ing Type Generation Start Trigger	Burst and Pipelined Sample Timing Type Generation Pause Trigger	Nominal. Maximum required pulse width to guarantee sampling by an asynchronous clock;
	10 ns		Sample clock period + 4 ns	synchronous triggers have same setup and hold requirements as data.

Specification	Value	Comments
Maximum required setup and hold of Sample Clock sample timing type triggers with respect to PFI 5	Refer to the <i>Pattern Acquisition Timing (Data and PFI 5 Channels)</i> section of this document.	—
Maximum required delay from data to Handshake trigger (t _{DT})	5 ns	Nominal. Maximum required time between data valid and the Handshake trigger; Handshake sample timing type only.
Maximum required delay from Handshake trigger to data (t _{TD})	50 ns	Nominal. Maximum required time between the Handshake Trigger and data invalid; Handshake sample timing type only.

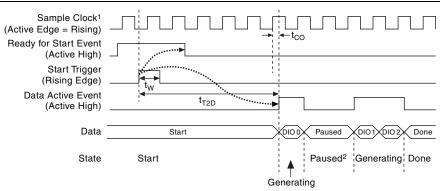


Figure 3. Pipelined Generation Timing Diagram

¹ Must be free-running.

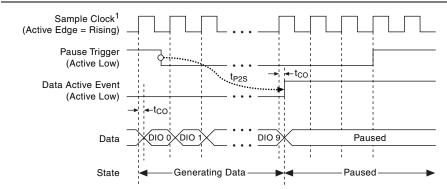
² Generation pauses if the DAQmx Underflow property/attribute is set to Pause Until Data Available or Pause Trigger Received.

t_w = Minimum detectable trigger pulse width.

t_{CO} = Exported Sample clock offset.

 t_{T2D} = Delay from trigger to digital data out.

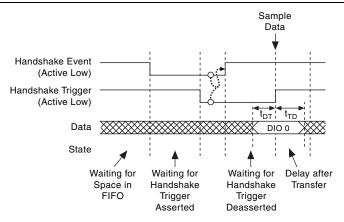




¹ Must be free-running.

t_{P2S} = Pause trigger to Paused state.

t_{CO} = Exported Sample clock offset.



 t_{DT} = Maximum required delay from data valid to trigger. t_{TD} = Maximum required delay from trigger to data invalid.

Events

Specification		Value		Comments
Supported events	Sample Timing Type	Acquisition	Generation	—
(by sample timing type)	Sample Clock	Ready for Start	Ready for Start, Data Active	
	Pipelined Sample Clock	Ready for Transfer, Ready for Start	Ready for Start, Data Active	
	Burst Handshake	Ready for Transfer	Ready for Transfer	
	Handshake	Handshake	Handshake	
	Change Detection	Change Detection, Ready for Start	N/A	
Destinations	2. PXI_TRIG<0. RTSI <07> (DC Connector) 7> (PXI backplane) [†] RTSI bus) [‡] C (PXI backplane) [†]		—

Specification	,	Value	Comments
Pulse width for	$Frequency \leq 10 \text{ MHz}$	Frequency > 10 MHz [∗]	Software
the exported Change Detection event	50 ns	15 ns	determined based on Sample clock frequency.
			* Frequency >10 MHz does not apply for NI 6535/6535B.
[†] PXI Express onl	ly		
‡ PCI Express onl	у		
Delay from	Minimum	Maximum	Nominal.
Change Detect to event	90 ns	NI PCle-6535/6536/6537 : 1 Sample clock cycle + 100 ns	Delay from data at the DDC connector to the event
		NI PXIe-6535/6536/6537 : 1 Sample clock cycle + 105 ns	generated on the DDC connector.
		NI 6535B/6536B/6537B : 1 Sample clock cycle + 120 ns	

Nonvolatile Storage

Specification	Value	Comments
Description	16 Mbit storage for firmware and power up states	_
Write Cycles	75,000 minimum	—

Power

Specification	Value		Comments
	NI 6535/6536/6537	NI 6535B/6536B/6537B	Maximum.
+3.3 VDC	750 mA	1 A	Into high-impedance
+12 VDC	300 mA	225 mA	loads.
Total power	6.1 W	6 W	

Physical Specifications

Specification	Value		Comments
Dimensions	PXI Express	PCI Express	_
	21.4 cm × 2.0 cm × 13.1 cm (8.42 in. × 0.79 in. × 5.14 in.)	18.1 cm × 2.2 cm × 12.6 cm (7.13 in. × 0.85 in. × 4.93 in.)	
Weight	144.58 g (5.1 oz)	107.7 g (3.8 oz)	—

Software

Specification	Value	Comments
Driver software	NI 6535: NI-DAQmx driver software version 8.8 or later NI 6536/6537: NI-DAQmx driver software version 8.5 or later NI 6535B/6536B/6537B: NI DAQmx driver software version 9.6.1 or later	—
Application software	 NI-DAQmx provides programming interfaces for the following application development environments (ADEs): National Instruments LabVIEW National Instruments LabWindows[™]/CVI[™] Microsoft Visual Studio 	Refer to the NI-DAQ Readme for more information about supported ADE versions.
Test Panel	National Instruments Measurement & Automation Explorer (MAX) provides test panels with basic acquisition and generation functionality for the NI 6535/6536/6537 and NI 6535B/6536B/6537B. MAX is included on the NI-DAQmx instrument driver media.	—

Environment



Note The NI 6535/6536/6537 and NI 6535B/6536B/6537B are intended for indoor use only.

Specification	Value	Comments
Operating temperature	PCI Express: 0 °C to +45 °C PXI Express: 0 °C to +55 °C	_
Storage temperature	-20 °C to +70 °C	—
Operating relative humidity	10% to 90% relative humidity, noncondensing (Meets IEC 60068-2-56.)	_
Storage relative humidity	5% to 95% relative humidity, noncondensing (Meets IEC 60068-2-56.)	_
Operating shock	30 g, half-sine, 11 ms pulse (Meets IEC 60068-2-27. Test profile developed in accordance with MIL PRF-28800F.)	
Storage shock	50 g, half-sine, 11 ms pulse (Meets IEC 60068-2-27. Test profile developed in accordance with MIL PRF-28800F.)	PXI Express
Operating vibration	5 Hz to 500 Hz, 0.31 g _{rms} (Meets IEC 60068-2-64.)	only
Storage vibration	5 Hz to 500 Hz, 2.46 g _{rms} (Meets IEC 60068-2-64. Test profile exceeds requirements of MIL PRF-28800F, Class B.)	
Altitude	0 m to 2,000 m above sea level (at 25 °C ambient temperature)	_
Pollution Degree	2	—

Safety, Electromagnetic Compatibility, and CE Compliance



Caution The protection provided by this equipment may be impaired if it is used in a manner not described in this document.

Specification	Value	Comments
Safety	This product is designed to meet the requirements of the following standards of safety for electrical equipment for measurement, control, and laboratory use:	_
	• IEC 61010-1, EN 61010-1	
	• UL 61010-1, CSA 61010-1	
Note: For UL and Certification sect	d other safety certifications, refer to the product label or the <i>Online I</i> ion.	Product
Electromagnetic Compatibility	This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:	With use of SHC68-C68-D2 or
	• EN 61326 (IEC 61326): Class A emissions; Basic immunity	SHC68-C68-D4 shielded cable.
	• EN 55011 (CISPR 11): Group 1, Class A emissions	shielded cable.
	AS/NZS CISPR 11: Group 1, Class A emissions	
	FCC 47 CFR Part 15B: Class A emissions	
	ICES-001: Class A emissions	
Note : For the stat <i>Certification</i> sect	ndards applied to access the EMC of this product, refer to the Online ion.	e Product
Note : For EMC of must be installed.	compliance, device <i>must</i> be operated with shielded cabling. In additi	on, filler panels
CE Compliance	This product meets the essential requirements of applicable European Directives as follows:	—
CE	• 2006/95/EC; Low-Voltage Directive (safety)	
	 2004/108/EC; Electromagnetic Compatibility Directive (EMC) 	
Online Product Certification	Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for this product, visit ni.com/ certification, search by model number or product line, and click the appropriate link in the Certification column.	_

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