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NI PXIe-5641R

RIO IF Transceiver

- 2 IF inputs and 2 IF outputs
- 20 MHz real-time IF bandwidth
- Xilinx Virtex-5 SX95T FPGA optimized for DSP
- 100 MS/s 14-bit ADC
- 200 MS/s 14-bit DAC
- >76 dB input SNR
- 250 kHz to 80 MHz IF center frequency
- -143 dBm/Hz input noise density
- Built-in digital upconverters and downconverters



Overview

The NI PXIe-5641R is a dual-input, dual-output intermediate frequency (IF) transceiver for applications such as radio-frequency identification (RFID) test, spectral monitoring, real-time spectrum analysis, RF dynamic test, and software-defined radio (SDR). It features two 14-bit, 100 MS/s analog-to-digital converters (ADCs) with built-in 20 MHz bandwidth digital downconverters (DDCs) and two 14-bit, 200 MS/s digital-to-analog converters (DACs) with built-in 20 MHz bandwidth digital upconverters (DUCs). This module also includes a Xilinx Virtex-5 SX95T field-programmable gate array (FPGA) that you can program using the NI LabVIEW FPGA Module. The SX95T FPGA offers 640 multipliers, more than 14,000 slices, and nearly 100,000 logic cells. With these features, the module can easily handle complex and high-speed signal processing, analysis, and modulation tasks. When paired with the NI PXI-5600 downconverter and NI PXI-5610 upconverter, the NI PXIe-5641R enables user-programmable FPGA-based radio frequency (RF) applications at frequencies up to 2.7 GHz and real-time bandwidths up to 20 MHz.

Specifications

Specifications Documents

- Specifications

Specifications Summary

General	
Product Family	RF
Form Factor	PXI Platform
PXI Bus Type	PXI Express
Part Number	780710-01
Operating System/Target	Real-Time , FPGA , Windows
LabVIEW RT Support	Yes

Triggering	Digital , Analog
Synchronization Bus (RTSI)	Yes
External Clocking	Yes
Length	21.6 cm
Width	2 cm
Height	13 cm
I/O Connector	SMA female , SMB male , 9-pin mini DIN
Power Requirement for +3.3V Rail	3 A
Power Requirement for +5V Rail	3 A
Slot Two Module	No
Module Width	1
Product Name	NI PXIe-5641R
RF	
RF Product Type	RF Signal Transceivers
Minimum Frequency	250 kHz
Maximum Frequency	80 MHz
Analog Input	
Channels	2
Resolution	14 bits
Simultaneous Sampling	Yes
Sample Rate	100 MS/s
Bandwidth	20 MHz
Input Impedance	50 Ohm
Frequency Range	250 kHz , 80 MHz
Supports Alias Protected Decimation?	Yes
Provides Digital Down Conversion?	Yes
Phase Noise	-145 dBc/Hz
Noise Floor (@ -50 dBm output)	-143 dBm/Hz
Analog Output	
Channels	2
Resolution	14 bits

Update Rate	200 MS/s
Bandwidth	20 MHz
Output Impedance	50 Ohm
Frequency Range	250 kHz , 80 MHz
Waveform Types	Intermediate Frequency , RF
Noise Floor (@ -50 dBm output)	-153 dBm/Hz
Supports Data Streaming?	Yes
Digital I/O	
Bidirectional Channels	7
Timing	Hardware
Logic Levels	TTL
Per Cycle Bidirectional	Yes

Pricing

Unit price does not include Import duty , VAT, or Sales Tax

Part Number	Description	Est Ship	Indian Rupee*	Qty
NI PXIe-5641R RIO IF Transceiver				
780710-01	NI PXIe-5641R, IF Transceiver	15 - 20	INR 548,000.00	0

* You have selected India as the country where you will use the product(s). Pricing may have changed since you printed this document on 09/09/2013. Please visit *ni.com* to see current pricing.

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Resources

Additional Product Information

- Manuals (4)
- Dimensional Drawings
- Product Certifications

Related Information

- National Instruments Transceivers

- NI PXIe-5641R Product In-Depth

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