



Agilent N2099A Synthesizer

DISCOVER the Alternatives...

Industries and Applications

- Transceiver Test
- Telecommunication Equipment Test
- Fibre Channel, Ethernet, PON, Parallel Optics
- Multi-port system testing
- High port count burn-in test

Product Description

The N2099A PXI synthesizer is tunable over a 2 GHz range and includes synchronous dual RF outputs. There are two options available that cover different frequency ranges depending on the required application.

The N2099A is the ideal clock source for the N2102B.

Models	
N2099A	PXI Synthesizer
N2099A-052	4.25 GHz to 6.25 GHz
N2099A-105	9.5 GHz to 11.5 GHz

Main Features and Benefits

Product features	Your benefit
Two frequency ranges available between 4.25 and 11.5 GHz	Coverage of an extended range of test applications
10 MHz clock output and two synchronous RF outputs	Provide clock or reference signals to multiple other modules, e.g. BERTs or Pattern Generators
Permanent magnet YIG (PMYTO) based synthesizer	Excellent phase noise performance
Non-volatile storage of set frequency – unit powers up at previously set frequency	Avoids operator errors

Connector compatibility: cPCI, PXI-H, PXI-1



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Specifications and Characteristics

Hardware	
Size	2-slot module
Output center frequency	5.25 GHz (option N2099A-052), 10.5 GHz (option N2099A-105)
Frequency tuning range	±1.0 GHz
Output power	+8 dBm (4, 5 and 6 GHz, characteristic) +6 dBm (9, 10 and 11 GHz, characteristic)
Power variation over temperature/frequency	±3 dB
Switching speed, 100 MHz step	100 ms typical
External reference oscillator output frequency (TCXO)	10 MHz



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Software

The N2099B Synthesizer and its accompanying software fully comply with PXI specifications. The included Windows application enables the user to control the instrument without any software development required. An ActiveX Control makes integration into custom applications easy.

Software operating systems	Microsoft Windows® XP (32-bit) Windows 7 (32-bit, 64-bit)
Standard compliant drivers	IVI-COM, IVI-C, LabVIEW, MATLAB
Supported application development environments (ADE)	VisualStudio® (VB.NET, C#, C/C++), VEE, LabVIEW, LabWindows/CVI, MATLAB
Agilent IO Libraries	Includes: VISA Libraries, Agilent Connection Expert, IO Monitor



Figure 1. N2099A application view.

Ordering Information

Typical Product Configuration

Model	Description
N2099A	PXI Synthesizer
N2099A-052	4.25 GHz to 6.25 GHz
N2099A-105	9.5 GHz to 11.5 GHz

Related products

N2100B	PXI Digital Communication Analyzer
N2101B	PXI Bit Error Ratio Tester
N2102B	PXI Pattern Generator

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5990-7669EN



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