

## Keysight Laser Interferometer Electronics

Keysight Technologies, Inc. offers a selection of electronic measurement boards for use with Keysight Laser Interferometer systems. Products are available for PCI, VME, and USB buses. The selection guide on the back lists the products available and the key attributes for each.

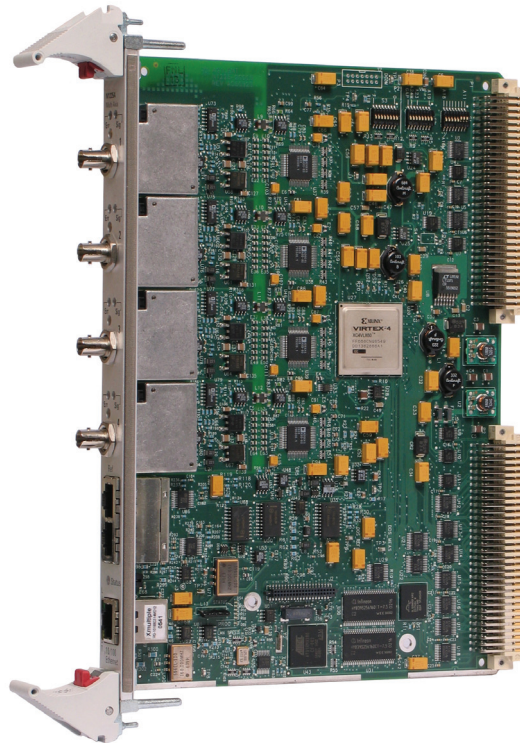
### Laser system electronics



E1709A



E1735A



N1225A

### Key features

- Products for PCI, VME, and USB busses
- Multiple hardware interfaces allow easy system integration
- API/Driver and example software simplifies programming task
- Fiber return for improved system performance
- More than 30 years of proven system performance

## Selection Guide

Model	Basic function	Bus	PM resolution (Extension factor)	Update rate	Multi-board sync	Linear IFM max balanced velocity @ laser split <sup>1</sup>	Special functions	Data sheets pub#	QFS pub#	Other pub# for more info
N1231A	3 axis	PCI	0.31 nm (512)	20 MHz	± 50 ns	5600 mm/s@ 20 MHz	PMAC interface	5989-1787EN	5990-5144EN	N1231-90002 user's guide
N1231B			0.15 nm (1024)		± 8 ns		Ext sample, Flexible IO Threshold compare	5989-1788EN		5989-3959EN white paper N1231-90006 user's guide
10896B	WTI axis	VME	4.9 nm (32)	Split freq	–	–	WTI averaging Comp change IRQ	5965-1569E	5990-8206EN	10896-90010 operating manual
10897D	1 axis		0.62 nm (256)	10 MHz	± 2 ns	1750 mm/s@ 5.8 MHz	Ext sample Flexible IO	5990-7922EN		10897-90010 operating and service manual
10898D	2 axis					5400 mm/s@ 17.5 MHz		5990-7924EN		10898-90004 operating manual
N1225A	3 axis (1st board) 4 axis (others)		0.15 nm (1024)			4500 mm/s@15.25 MHz	Flexible IO Integrated receivers Threshold compare	5989-8714EN	5990-5142EN	N1225-90012 user's guide
N1226A	15-axis interface		–	User config	–	> 4200 mm/s	Auto WTI comp PMAC interface Quadrature outputs	5990-3345EN	5990-7620EN	N1226-90003 user's guide
E1735A	1 axis	USB	1 nm (316)	–	–	–	Lower cost (no hardware outputs)	5989-9708EN	5990-8206EN	5989-9712EN 5530 laser calibration system DS
			Min freq	Max freq	Min power					
10780C	Receiver	–	0.1 MHz	7.2 MHz	1.5 µW	1050 mm/s@ 3.65 MHz	–	5964-6190E	5990-8206EN	05517-90086 laser and optics user's manual chap 35
10780F	Fiber receiver				2.2 µW		Fiber connection			
E1708A					2.2 µW		Flatter response	5965-1569E		E1708-90010 operating manual
E1709A				15.5 MHz	0.2 to 0.8 µW	2350 mm/s@ 7.8 MHz	High sensitivity			E1709-90006 operating manual
N1225A	Integrated receiver (qty 4)	VME	0.5 MHz	30 MHz	0.065 µW	4500 mm/s@ 15.25 MHz	Higher sensitivity Integrated on axis board	5989-8714EN	5990-5142EN	N1225-90012 user's guide

1. These values are the board's/receiver's maximum performance capabilities. The actual maximum stage velocity will generally be limited to values less than these by other components (laser head and optics) in the system.

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