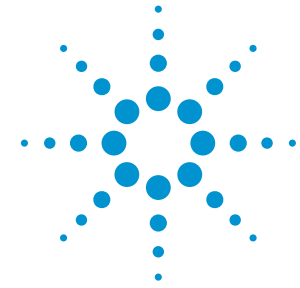
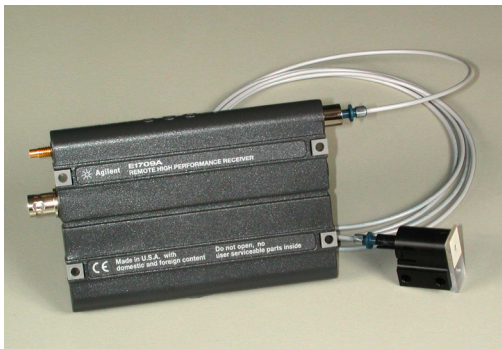


Agilent Laser Interferometer Electronics



Agilent offers a selection of electronic measurement boards for use with Agilent 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.



E1709A



N1225A



E1735A

Laser system electronics

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



Quick Fact Sheet

Agilent Laser Interferometer Electronics Selection guide

Model	Basic function	Bus	PM resolution (Extension factor)	Update rate	Multi-board sync	*1 Linear IFM max balanced velocity @ laser split	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		<ul style="list-style-type: none"> Ext sample Flexible IO Threshold compare 	5989-1788EN		<ul style="list-style-type: none"> 5989-3959EN white paper N1231-90006 user's guide
10896B	WTI axis	VME	4.9 nm (32)	Split freq	–	–	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Ext sample Flexible IO 			10897-90010 operating and service manual
10898A	2 axis					5400 mm/s@ 17.5 MHz	10898-90004 operating manual			
N1225A	<ul style="list-style-type: none"> 3 axis (1st board) 4 axis (others) 		0.15 nm (1024)	–	–	4500 mm/s@15.25 MHz	<ul style="list-style-type: none"> Flexible IO Integrated receivers Threshold compare 	5989-8714EN	5990-5142EN	N1225-90012 user's guide
N1226A	15-axis interface		–	User config	–	> 4200 mm/s	<ul style="list-style-type: none"> 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 dynamic calibrator
			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
N1225A	Integrated receiver	VME	0.5 MHz	30 MHz	0.065 µW	4500 mm/s@ 15.25 MHz	<ul style="list-style-type: none"> Higher sensitivity Integrated on axis board 	5989-8714EN	5990-5142EN	N1225-90012 user's guide

1. Actual maximum velocity depends on laser head.

For additional information on Agilent laser interferometer systems, please visit www.agilent.com/find/lasers on the web

