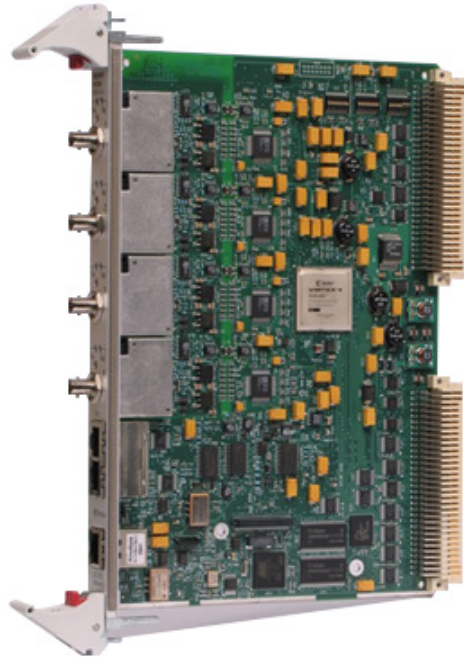


Keysight N1225A VME Four-Channel High Resolution Laser Axis Board

The Keysight Technologies, Inc. N1225A VME four-channel high resolution laser axis board provides ultra-sensitive fiber optic receivers and high resolution distance measurements for high performance positioning systems using laser interferometry with VME bus systems. Multiple N1225A boards can be linked together for up to 31 axes of position measurement. Includes “oscilloscope like” data capture operated with standard web browsers.



N1225A VME Four-Channel High Resolution Laser Axis Board

Key features

- Four measurement channels per board
- Receiver sensitivity of 0.065 μ W
- Position resolution of 0.15 nm using plane mirror optics
- \pm 2.29 m/s plane mirror stage velocity using 15 MHz split laser head
- Multiplexed 36 bits position output data rate @ 10 MHz/number of axes
- Simultaneous 12 bits position output at 10 MHz
- Optional cyclic error compensation available

Product specifications

| Model | Hardware update rate | Maximum resolution with plane mirror optics | Maximum stage velocity using plane mirror optics and 5517FL laser head | Options |
|------------|----------------------|---------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| N1225A | 10 MHz | 0.15 nm | 1050 mm/s | Standard configuration |
| N1225A-200 | 10 MHz | 0.15 nm | 1050 mm/s | Reduces cyclic error having a period of 1 fringe Up to 8 nm error can be reduced to less than 1 nm |

Key specifications with plane mirror optics

| Options | Description |
|----------------------------|-------------------------------------------------------------------------|
| Hardware measurement range | ± 10.3 m |
| Resolution | 0.15 nm, 0.3 nm, 0.6 nm, 1.2 nm, 2.4 nm, 4.8 nm programmable resolution |
| Velocity | Up to ± 2.29 m/s with 15 MHz laser split frequency |
| Backplane | Compatible with VME and VME64x |
| Hardware output | 36 bit parallel position word on P2 connector |
| VMEbus | A16/A24, GAP Addr; D16/D32 data transfer cycles |
| LAN | 10/100 BaseT, DHCP enabled, built-in web server |
| Power supply | Single +5V @ 5.6A max |
| Size | VME 6U |

For more details on Keysight digital multimeters and ordering information see “Keysight ‘Low Profile’ 6½ Digit Multimeter” literature number 5989-6303E.

To find a distributor go to: www.keysight.com/find/distributors

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