

VITA VPX Compatible Hi-Speed, High-Density Hyperboloid Modular Interconnects

The HKX is a shielded, high-density, hi-speed modular interconnect which employs the mission critical capabilities of the hyperboloid contact.

IEH developed the HKX interconnect platform to meet or exceed future high-level requirements for applications such as -- avionics, radar, weapon systems, data storage, and communications including video.

Offering both VITA VPX and custom platforms.

Primary advantages:

- The original, proven hyperboloid contact system
- High-level vibration and mechanical shock protection
- Resistant to Fretting
- Modular construction allows for either VITA VPX footprint or for custom configurations
- Data rates up to 10 Gbps while retaining the same VITA 46 platform
- High quality materials meets the most demanding applications and specifications
- Very low insertion and extraction forces
- Custom wafer design allows for mixing differential and single-ended circuits

Key Features of HKX

- Fully compatible pwb footprint with VITA 46 standard
- Hi-Speed: the HKX is designed for 10 Gbps data rate performance
- 100 ohm impedance for differential pair configuration
- The daughtercard assembly is optimized for differential pair architecture on a 1.8mm by 1.35mm grid
- The daughtercard connector contains wafers, which provide differential, single-ended and power options
- LCP housings meets NASA outgassing requirements
- ESD protection supports 2-level maintenance designs
- Available with either solder-dip or compliant terminations