SentinelEX

PXIe Test and Measurement Suite



SentinelEX continues to lead the way in modular test solutions by delivering uncompromised measurement integrity to the heart of every test system: signal switching. The new VTI Instruments PXIe Switching Series by AMETEK is built on 20 years of proven deployment in the most demanding aerospace, defense and automotive applications. The new series delivers exceptional performance and reliability by implementing extensive signal path shielding, isolation and built-in health monitoring. Its software-configurable switch subsystems increase flexibility and help control costs by allowing a single module to be easily used for different testing requirements.





- Improved test reliability from extensive signal path shielding
- Lower switching costs through software-configurable multiplexer and matrix grouping
- Reduced downtime with embedded health monitoring

ADVANCED MODULE FEATURES

- Software-configurable
- Embedded health monitoring
- Exceptional noise immunity
- Efficient high-density packaging
- Interactive schematic control
- 3 Year warranty
- Next generation PXIe interface

ATE MARKETS & APPLICATIONS

- Avionics
- Electronics
- Oil and Gas
- Automotive
- Defense and Aerospace
- Energy / Power Generation

AMETEK®

PROGRAMMABLE POWER

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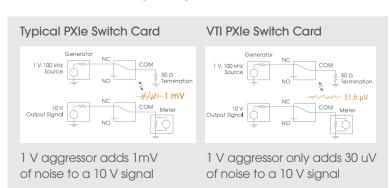
SentinelEX PXIe Signal Switching Product Specifications & Details

| Specifications General Purpose | | | | | |
|---|-------------------|-------|----------------|---------|--------------------------|
| Models | Switched V/A | | Switched Power | | Typical Bandwidth (-3dB) |
| SMX-2xxx Discrete Power Switches | 250 VAC/120 VDC | 16 A | 480 W | 4000 VA | 30 MHz |
| SMX-3xxx Multiplexers | 300 VAC / 300 VDC | 2 A | 60 W | 62.5 VA | 100 MHz |
| SMX-4xxx Matrices | 300 VAC / 300 VDC | 2 A | 60 W | 62.5 VA | 82 MHz |
| SMX-5xxx Discrete Switches | 300 VAC / 300 VDC | 2/5 A | 60/150 W | 62.5 VA | 64 MHz |
| SMX-6xxx RF Multiplexers | 250VAC / 220VDC | 2 A | 50 W | 62.5 VA | 3 GHz |
| Specifications Microwave | | | | | |
| Models | VSWR (26.5 GHz) | | Isolation | | Bandwidth |
| SMX-7xxx-xx Microwave Switches (SPDT,SP4T,SP6T & TRANSFER SW) | 1.60:1 | | -55 dB | | DC-67 GHz |

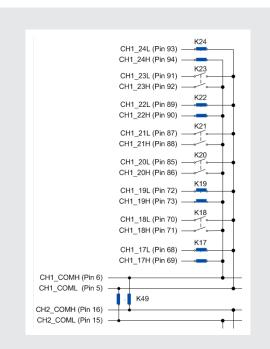
SIGNAL SWITCHING DRIVES TEST SYSTEM PERFORMANCE

The quality of a switch is not determined by what it does, rather, by what it doesn't do. Switching systems that lack signal transparency destroy signal integrity, thereby reducing the measurement capability of even the most precise measurement device. VTI switch cards incorporate advanced layout techniques and advanced shielding methods to ensure signal transparency.

VTI's new PXIe switch cards provide more than 30X better isolation than comparable cards, greatly improving overall performance and allowing test system engineers to maximize the full range of the measurement instrumentation. Test system performance is improved and costs lowered by reducing false pass/fail conditions and intermittent glitches often caused by marginal signal levels.



VIRTUAL SCHEMATIC CONTROL



Embedded virtual schematic control simplifies setup and debugging; allows all relays to be engaged independent of application software and device drivers.





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