

MATRICES WITH BIST (Built-in Self Test)

Switching Series | PXIe Test And Measurement Suite

SMX-4XXX SERIES

The VTI Instruments SMX-4XXX Series of matrix cards deliver exceptional performance and reliability by implementing extensive signal path shielding, isolation and built-in health monitoring. Built In Self-Test (BIST) capability can be used to determine relay health and provide confidence. Available models with software configurable switch subsystems increase flexibility and help control costs by allowing a single module to be used for different testing requirements. Embedded virtual schematic control further simplifies setup and debugging, allowing all relays to be engaged independent of application software.

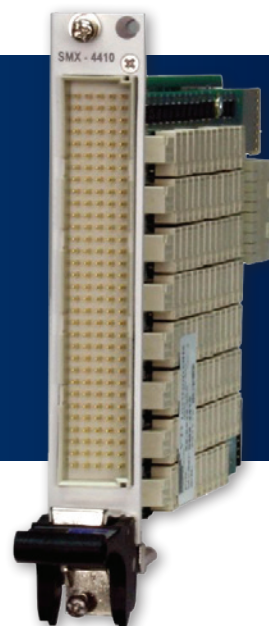
Ideally suited for medium-to-high density automated test equipment (ATE) requiring multiple connection point flexibility, the SMX-4XXX Series provides uncompromised measurement integrity ideal for the most demanding aerospace, defense and automotive applications.

Features

- Fully configurable and fixed configurations to provide user flexibility
- 300 VAC / 300 VDC
- 2 A Switching
- Embedded Virtual Schematic
- Configurable Internal Bussing Relays
- Relay Cycle Count Odometer
- Extensive End-to-End Signal Path Shielding
- Built-in Self Test to Determine Relay Health
- Software-configurable
- Embedded Health Monitoring
- Improved Test Reliability
- Exceptional Noise Immunity
- Efficient High-density Packaging
- Interactive Schematic Control
- 3 Year Warranty

ATE MARKETS & APPLICATIONS

- AVIONICS
- ELECTRONICS
- OIL AND GAS
- AUTOMOTIVE
- DEFENSE AND AEROSPACE
- ENERGY / POWER GENERATION



SPECIFICATIONS

Maximum Switching Voltage	300 VDC / 300 VAC
Maximum Switching Current	2 A
Maximum Switching Power	60 W DC, 62.5 VA
Bandwidth	> 82 MHz (typical)
Switching Time	< 8 ms
Path Resistance	< 500 mΩ
Insulation Resistance	> 1 X 10 ⁹ Ω
Rated Switch Operations	
Mechanical	> 30 x 10 ⁶
Electrical	> 10 x 10 ³
Configurable Bussing Relays	Internal
End-to-End Signal Path Shielding	Yes

Specifications subject to change without notice.

ORDERING INFORMATION

MODEL	PART NO.	CONFIGURATION
SMX-4410	70-0409-108R	(4) 4x10, 2-wire, fully configurable
SMX-4411	70-0409-200R	(4) 4x10 2-wire Matrix, fixed
SMX-4412	70-0409-201R	(2) 4x20 2-wire Matrix, fixed
SMX-4413	70-0409-202R	(1) 4x40 2-wire Matrix, fixed
SMX-4414	70-0409-203R	(2) 8x10 2-wire Matrix, fixed
SMX-4415	70-0409-204R	(1) 8x20 2-wire Matrix

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