

MULTIPLEXER SWITCHES

Switching Series | PXIe Test And Measurement Suite

SMX-3XXX SERIES

The VTI Instruments SMX-3XXX Series of multiplexers deliver exceptional performance and reliability by implementing extensive signal path shielding and isolation. 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 systems (ATE), the SMX-3XXX Series provides uncompromised measurement integrity ideal for the most demanding aerospace, defense and automotive applications.



Features

- MX-30xx: 1x128 1-wire, 1x64 2-wire, or 1x32 4-wire Configurations
- SMX-32xx: 1x152 1-wire, 1x76 2-wire, or 1x38 4-wire
- 300 VAC / 300 VDC
- 2 A Switching
- Embedded Virtual Schematic
- Versions with Capacitive Discharge Relays
- Configurable Internal Bussing Relays
- Relay Cycle Count Odometer
- Extensive End-to-End Signal Path Shielding
- 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	> 100 MHz (typical)
Switching Time	< 8 ms
Path Resistance	< 400 mΩ
Insulation Resistance	> 1 X 10 ⁹ Ω
Rated Switch Operations	
Mechanical	1 X 10 ⁸
Electrical	1 X 10 ⁵
Capacitive Discharge Relays	Internal
Configurable Bussing Relays	Internal
End-to-End Signal Path Shielding	Yes

Specifications subject to change without notice.

ORDERING INFORMATION

MODEL	PART NO.	CONFIGURATION
SMX-3001	70-0409-220R	(8) 1x8, 2-wire multiplexer, fully configurable
SMX-3002	70-0409-221R	(8) 1x8, 2-wire multiplexer, fixed
SMX-3003	70-0409-222R	(4) 1x16, 2-wire multiplexer, fixed
SMX-3004	70-0409-223R	(2) 1x32, 2-wire multiplexer, fixed
SMX-3005	70-0409-224R	(1) 1x64, 2-wire multiplexer, fixed
SMX-3006	70-0409-128R	(1) 1x128, 1-wire multiplexer, fixed
SMX-3007	70-0409-129R	(2) 1x64, 1-wire multiplexer, fixed
SMX-3276	70-0409-009R	(2) 1x38, 2-wire multiplexer, fully configurable
SMX-3277	70-0409-103R	(2) 1x76, 1-wire multiplexer, fixed
SMX-3278	70-0409-104R	(2) 1x38, 2-wire multiplexer, fixed
SMX-3279	70-0409-105R	(1) 1x76, 2-wire multiplexer, fixed
SMX-3280	70-0409-225R	(1) 1x152, 1-wire multiplexer, fixed