

# DE9001

SLSC 32/64 CHANNEL ROUTING MODULE



## Description

DE9001 SLSC 32/64 Channel Routing Module is a switch matrix module that allows the most challenging Signal Routing options with its flexible hardware/software, the high number of channels, and wide range of Voltage/Current ratings. In SLSC Form-Factor, the module has 32 Differential or 64 Single-Ended channels configurable in any routing scenario. Example switching combinations for a single group are shown below. Note that all of the channels can achieve these combinations independently.

✔ DE9001 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- 32 differential or 64 single-ended channels
- Independent channel configurations
- 220VDC, 250VAC switching voltage, 2A rated current per channel
- 60W switching power per channel
- SLSC chassis compatible
- 2 Slots for SLSC Instrument Expansion or SLSC Fault Insertion Modules

✔ DE9001 is compatible with DE9002 SLSC Instrument Expansion Module and DE9010 SLSC Fault Insertion Module and able to measure all of the routed channels when used together.

## Application Areas

- HIL Testing
- Signal Routing
- Signal Conditioning
- Fault Simulation

# DE9002

SLSC INSTRUMENT EXPANSION MODULE



## Description

The main function of the DE9002 SLSC Instrument Expansion Module is to multiplex the signals on any DEICO SLSC Card on the instrument buses. DE9002 can be easily mounted to any DEICO SLSC module with a plugin module shot. It provides instrument connection capabilities with 32 single-ended or 16 differential channels. In addition, each instrument bus signal has a GND connection relay for single-ended measurement. SLSC Instrument Expansion Module directs the base cards' test signals to instrument buses. It is possible to connect two instrument buses to two different instrument devices.

✔ DE9002 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- 16 differential or 32 single-ended channels
- 2 Instrument bus connections
- Independent channel configurations
- 220VDC, 250VAC switching voltage, 2A rated current per channel
- 60W switching power per channel

## Application Areas

- HIL Testing
- Signal Routing
- Signal Conditioning

# DE9003

SLSC CURRENT OUTPUT MODULE 100MA



## Description

DE9003 SLSC Current Output Module 100MA is a 32-channel current module used in the SLSC enclosure, which connects to test equipment and products under test. It provides current output in the range of  $\pm 100\text{mA}$  at 100uA resolution by using  $\pm 10\text{V}$  analog Voltage from the input. Signal outputs are relay controlled and it is provided by the controller on the module. SLSC chassis is required to use the product.

✔ DE9003 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- Current output in the range of  $\pm 100\text{mA}$
- Independent channel configurations
- Output control with relay available
- 100uA resolution
- Load connection can be connected up to a maximum voltage of 14.5V
- SLSC chassis compatible
- 2 Slots for Instrumentation Modules

✔ DE9003 is compatible with DE9002 SLSC Instrument Expansion Module and able to measure all of the routed channels when used together.

## Application Areas

- HIL Testing
- Current Output

# DE9004

SLSC AMPLIFIER MODULE 20MA



## Description

DE9004 SLSC Amplifier Module 20MA is a 24-channel signal amplifier that is used in the SLSC chassis and connected to test equipment and DUTs. There are 6 types of amplifier block with different gain on it. Signal outputs are relay controlled. Relays are controlled by the controller block. SLSC chassis is necessary for module usage.

✔ DE9004 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- 24 channels
- Signal amplification with 6 different gains
- High slew rate
- Low signal noise
- Wide bandwidth
- Wide operating voltage
- Relay controlled outputs
- SLSC chassis compatible

✔ Alternate options can be provided on request.

## Application Areas

- HIL Testing
- Signal Amplification

# DE9005

SLSC PASS THROUGH MODULE



## Description

DE9005 SLSC Pass Through Module is a 64-channel relay module that is used in SLSC chassis and connected to test equipment and DUTs. Module is suitable for 64-channel single or 32-channel differential switching. There is a single test output for switching signals on the module. All switching signals can switch to the test output. SLSC chassis is necessary for module usage.

✔ DE9005 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- 32 differential or 64 single-ended channels
- Independent channel configurations
- 400V switching voltage, 100mA rated current per channel
- Integrated instrument module structure
- SLSC chassis compatible

✔ DE9005 is compatible with DE9002 SLSC Instrument Expansion Module and able to measure all of the routed channels when used together.

## Application Areas

- HIL Testing
- Signal Routing
- Signal Conditioning

# DE9006

SLSC AMPLIFIER MODULE 30MA



## Description

DE9006 SLSC Amplifier Module 30MA is a 24-channel signal amplifier that is used in the SLSC chassis and connected to test equipment and DUTs. There are 24 amplifier blocks with 4.92 gain on it. Signal outputs are relay controlled. Relays are controlled by the controller block. SLSC chassis is necessary for module usage.

✔ DE9006 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- 24 channels
- Signal amplification with gain 4.92
- High slew rate
- Low signal noise
- Wide bandwidth
- Wide operating voltage
- Relay controlled outputs
- SLSC chassis compatible

✔ Alternate options can be provided on request.

## Application Areas

- HIL Testing
- Signal Amplification

# DE9007

SLSC PROGRAMMABLE DISCRETE IO MODULE



## Description

DE9007 SLSC Programmable Discrete IO Module has 32 channel discrete output and 32 channel discrete input which is used in SLSC chassis and connected to test equipment and DUTs. Output channels can be used for high or low driver. For high side driving, the voltage source is supplied externally. For low side driving, the module's output operates an open collector or open drain driver. Input channels can compare the input level to two threshold voltages. These voltages are configurable. SLSC chassis is necessary for module usage.

✔ DE9007 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- 32 channel selectable sense operation, GND/open or supply/open
- Dual programmable voltage threshold, 3 to 22V
- Lightning protected sense inputs
- High input voltage tolerance
- 32 channel output
- High side or low side driving
- Fully protected outputs
- High side external voltage input
- SLSC chassis compatible
- 2 Slots for SLSC Instrument Expansion Modules

✔ DE9007 is compatible with DE9002 SLSC Instrument Expansion Module and able to measure all of the routed channels when used together.

## Application Areas

- HIL Testing
- Discrete Input Measurements
- Discrete Output
- Fault Simulation

# DE9010

SLSC FAULT INSERTION MODULE



## Description

DE9010 SLSC Fault Insertion Module is an add-on board for particular SLSC modules; and it offers a set of relay channels to be used for simulating open, short and/or interrupted connections in hardware-in-the-loop (HIL) testing. One can connect input signals either to fault buses on the rear transition interface (RTI) or to external devices such as other test instruments and units under test (UUTs), and even other modules through the second connector on the front of the SLSC module.

✔ DE9010 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

## Features

- 16 differential or 32 single-ended channels
- 220VDC, 250VAC switching voltage, 2A and 60W per channel
- Flexibility in connection (i.e., either through RTI or the front panel of the SLSC module)

## Application Areas

- Open-circuit simulation of the input signal pairs
- Short-circuit simulation of the input signal pairs
- Fault insertion

## DE9100

SLSC CURRENT INPUT MODULE 100MA



### Description

DE9100 SLSC Current Input Module 100MA is a 16-channel current sense module used in the SLSC enclosure, which connects to test equipment and products under test. It gives analog voltage information in the range of 0.5-4.5V by using the current in the range of  $\pm 100\text{mA}$  from the input. Signal inputs are relay controlled and relay control is provided by the controller on the module. The SLSC case is required to use the product.

- DE9100 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

### Features

- 16 channels
- Independent channel configurations
- Current input in the range of  $\pm 100\text{mA}$
- Voltage output in the range of 0.5-4.5V
- 0.15% resolution
- Load can be connected in the range of -22V to +60V
- SLSC chassis compatible
- 2 slots for Instrumentation Expansion Modules

- DE9100 is compatible with DE9002 SLSC Instrument Expansion Module and able to measure all of the routed channels when used together.

- Alternate options can be provided on request.

### Application Areas

- HIL Testing
- Current Input Measurement

## DE9101

SLSC CURRENT INPUT MODULE 500MA



### Description

DE9101 SLSC Current Input Module 500MA is a 16-channel current sense module used in the SLSC enclosure, which connects to test equipment and products under test. It gives analog voltage information in the range of 0.5-4.5V by using the current in the range of  $\pm 500\text{mA}$  from the input. Signal inputs are relay controlled and relay control is provided by the controller on the module. The SLSC case is required to use the product.

- DE9101 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

### Features

- 16 channels
- Independent channel configurations
- Current input in the range of  $\pm 500\text{mA}$
- Voltage output in the range of 0.5-4.5V
- 0.15% resolution
- Load can be connected in the range of -22V to +60V
- SLSC chassis compatible
- 2 slots for Instrumentation Modules

- DE9101 is compatible with DE9002 SLSC Instrument Expansion Module and able to measure all of the routed channels when used together.

- Alternate options can be provided on request.

### Application Areas

- HIL Testing
- Current Input Measurement

## DE9200

SLSC VDT SIMULATION MODULE



### Description

DE9200 SLSC VDT Simulation Module is an 8 channel VDT simulation module which is used in SLSC chassis and connected to test equipment and DUTs. Signal outputs are relay controlled. Relays are controlled by the controller block. SLSC chassis is necessary for module usage.

- DE9200 is compatible with IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001 standards.

### Features

- 8 independent channels
- 5-wire & 6-wire VDT mode
- Integrated self-test with 400Hz, 800Hz, 1kHz, 10kHz excitation signals and 10V control signals (Optional)
- Relay controlled outputs
- SLSC chassis compatible
- Integrated instrumentation structure

- DE9200 is compatible with DE9002 SLSC Instrument Expansion Module and able to measure all of the routed channels when used together.

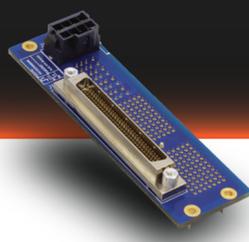
- Alternate options can be provided on request.

### Application Areas

- HIL Testing
- VDT Simulation

## DE9900

SLSC RTI MODULE DSUB68



### Description

DE9900 SLSC RTI Module DSUB68 is a rear transition interface which carries signals from SLSC form factor to a DSUB68 connector and a power header in order to allow the harness process. It also contains strain relief accessories to protect the cable from bending.

### Features

- Connect a SLSC Amplifier Module to an analog output module (ex. PXIe-6738)
- SLSC chassis compatible

### Application Areas

- HIL Testing
- Signal Transition

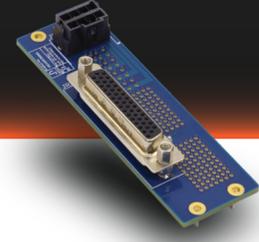
### Accessories



DE9903  
RTI STRAIN RELIEF

## DE9901

SLSC RTI MODULE DSUB44



### Description

DE9901 SLSC RTI Module DSUB44 is a rear transition interface which carries signals from SLSC form factor to a DSUB44 connector and a power header in order to allow harness process. It covers only Bank1 signal transitions. It also contains strain relief accessories to protect cable from bending.

### Features

- Compatible with any SLSC Module with 16 differential or 32 single-ended channels
- Standard HD44 pinout
- SLSC chassis compatible

### Application Areas

- HIL Testing
- Signal Transition

### Accessories



DE9903  
RTI STRAIN RELIEF

## DE9902

SLSC RTI MODULE 2BANK DSUB44 RA



### Description

DE9902 SLSC RTI Module 2Bank DSUB44 RA is a rear transition interface which carries signals from SLSC form factor to a DSUB44(x2) connector and a power header in order to allow harness process. It covers Bank1 and Bank2 signal transitions.

### Features

- Compatible with any SLSC Module with 32 differential or 64 single-ended channels
- Standard HD44 pinout
- Include with special vertical RTI strain relief
- SLSC Chassis compatible

### Application Areas

- HIL Testing
- Signal Transition

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# SLSC MODULAR SYSTEMS



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