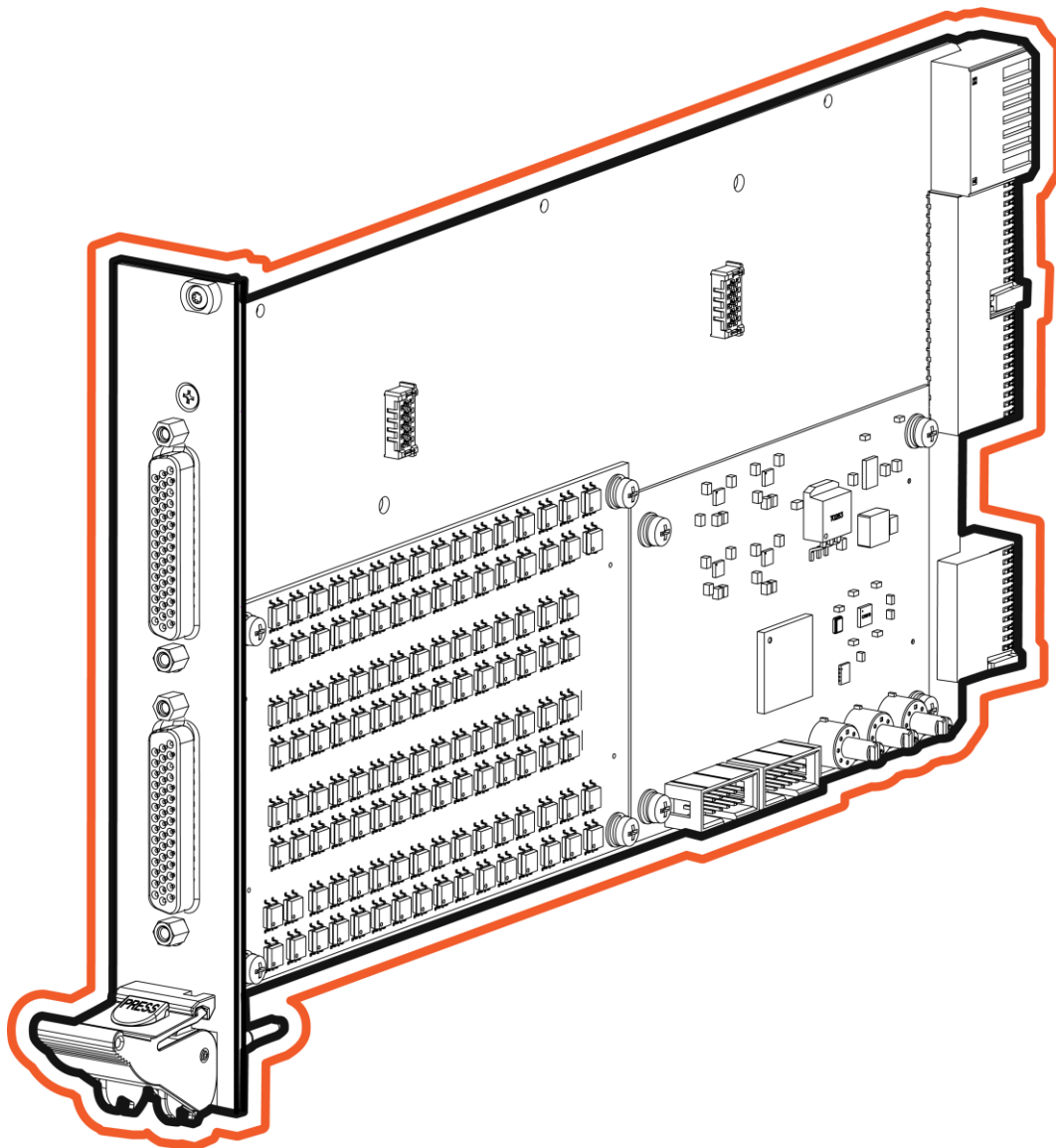


DE9005 DATASHEET

SLSC PASS THROUGH MODULE



 **DEICO**

Contents

DESCRIPTION.....	1
HARDWARE OVERVIEW	2
Circuitry.....	2
Hardware Specifications	3
Electrical.....	3
Physical.....	3
Environmental.....	3
SIGNAL CONNECTIONS.....	4
J1, J2 Pinout (Front)	4
XJ2 Connector Pinout (Rear)	5
XJ3 Connector Pinout (Rear)	6
CONFIGURATION.....	6
PROGRAMMING THE DEVICE.....	6
Programming the Device in Software	6
SAFETY GUIDELINES	6
COMPATIBILITY GUIDELINES.....	7
Electromagnetic Compatibility Guidelines	7
NOTES.....	8

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.



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

The general features DE9005 are listed below:

- ⇒ 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

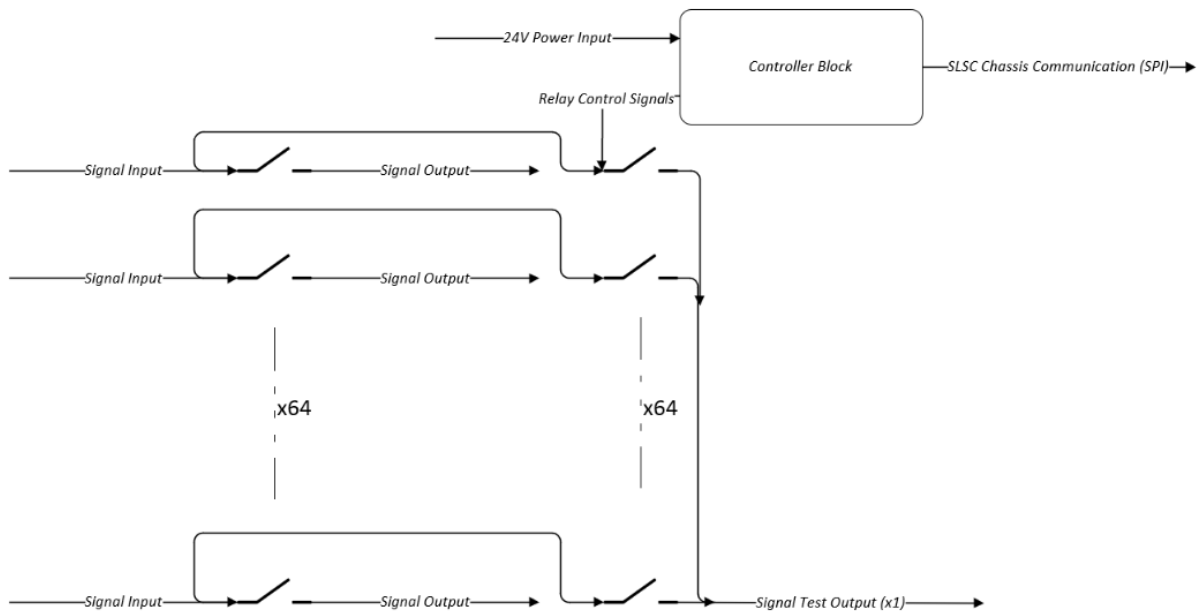
DE9005 is compatible with *IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001* standards.

Areas of application include:

- ⇒ HIL Testing
- ⇒ Signal Routing
- ⇒ Signal Conditioning

HARDWARE OVERVIEW

Circuitry



Hardware Specifications

Electrical

Specification	Minimum	Typical	Maximum
Input Voltage	10V	24V	50V
Rated Current	—	—	0.4A
Channel Current	—	—	100mA
Channel Voltage	—	—	400V
Switching Resistance	—	8Ω for DC 25Ω for AC	—

Physical

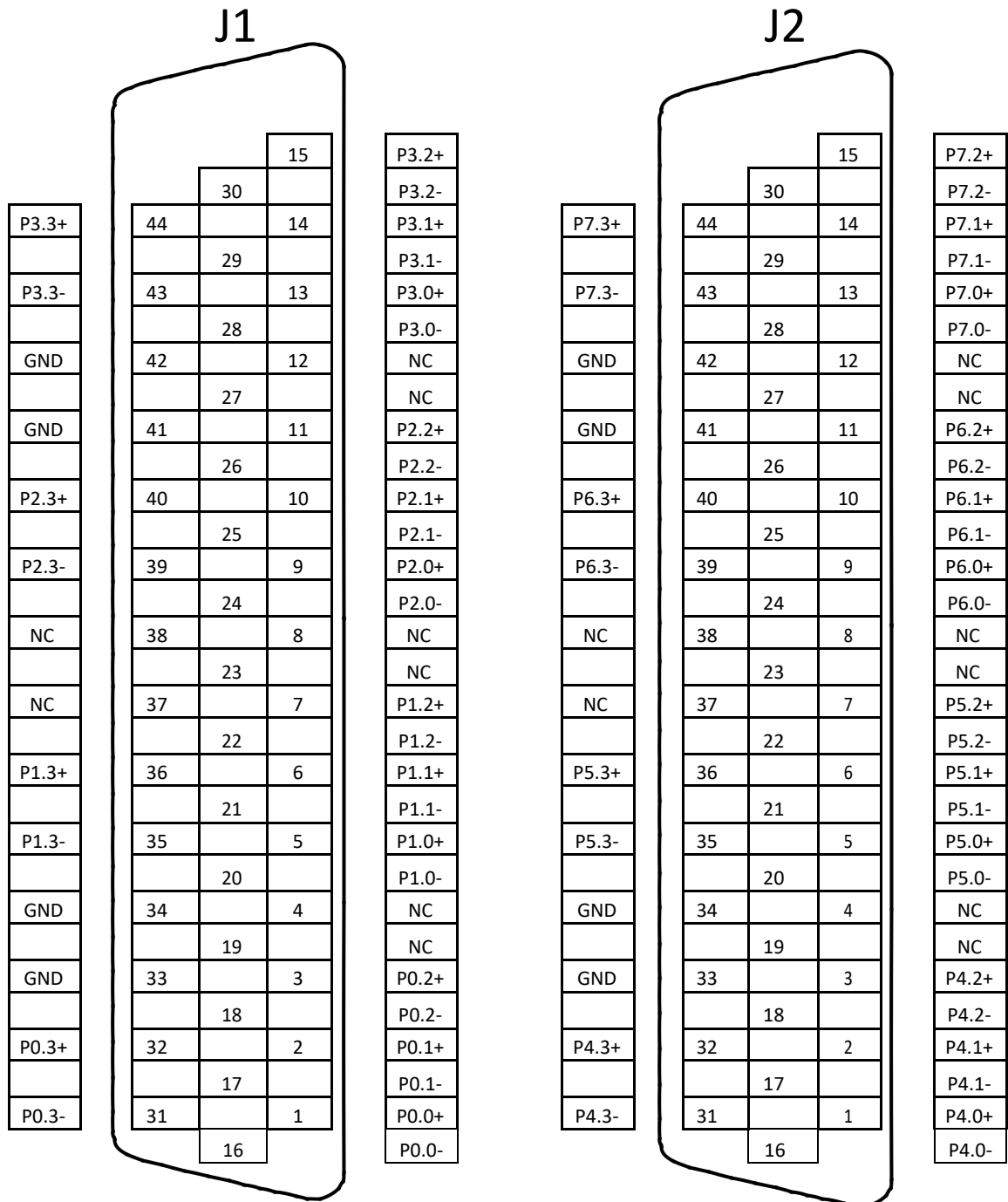
Specification	Typical	Notes
Dimensions	144.32mm x 30.48mm x 302mm (excluding ejector)	SLSC Standard Dimensions
Front panel connectors (x2)	HD44F	MPN: 2311770-1

Environmental

Specification	Condition	Value
Operating Humidity	Relative, non-condensing	10% - 90%
Storage Humidity	Relative, non-condensing	5% - 95%
Operating Temperature	Forced-air cooling from chassis	0°C - 40°C
Storage Temperature	Non-operational	-40°C - 85°C

SIGNAL CONNECTIONS

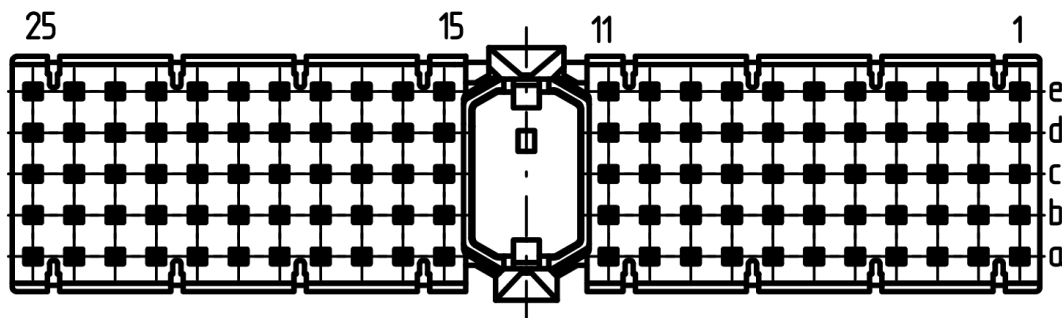
J1, J2 Pinout (Front)



J1, J2 Connector Pin Assignments

Signal	Description
Px.y	Line y in Port x
GND	Ground connection
NC	No connection

XJ2 Connector Pinout (Rear)



XJ2 Connector Pin Assignments

Row	a	b	c	d	e
1	P0.0+	P0.0-	NC	P0.1+	P0.1-
2	P0.2+	P0.2-	NC	P0.3+	P0.3-
3	GND	GND	GND	GND	GND
4	P1.0+	P1.0-	NC	P1.1+	P1.1-
5	P1.2+	P1.2-	NC	P1.3+	P1.3-
6	GND	GND	GND	GND	GND
7	P2.0+	P2.0-	NC	P2.1+	P2.1-
8	P2.2+	P2.2-	NC	P2.3+	P2.3-
9	GND	GND	GND	GND	GND
10	P3.0+	P3.0-	NC	P3.1+	P3.1-
11	P3.2+	P3.2-	NC	P3.3+	P3.3-
15	P4.0+	P4.0-	NC	P4.1+	P4.1-
16	P4.2+	P4.2-	NC	P4.3+	P4.3-
17	GND	GND	GND	GND	GND
18	P5.0+	P5.0-	NC	P5.1+	P5.1-
19	P5.2+	P5.2-	NC	P5.3+	P5.3-
20	GND	GND	GND	GND	GND
21	P6.0+	P6.0-	NC	P6.1+	P6.1-
22	P6.2+	P6.2-	NC	P6.3+	P6.3-
23	GND	GND	GND	GND	GND
24	P7.0+	P7.0-	NC	P7.1+	P7.1-
25	P7.2+	P7.2-	NC	P7.3+	P7.3-

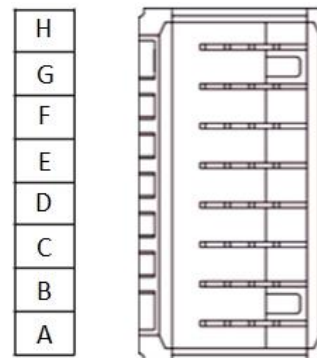
XJ2 Connector Signal Descriptions

Signal	Description
Px.y	Line y in Port x
GND	Ground connection
NC	No connection

XJ3 Connector Pinout (Rear)

XJ3 Connector Pin Assignments

Pins	Signal
A	TEST_P
B	TEST_N
C	NC
D	NC
E	GND
F	GND
G	NC
H	NC



CONFIGURATION

DE9005 control is based on NI-SLSC API. Before installing the device, NI-SLSC 19.5 or later must be installed. After installing software & the device, the device appears in the <LabVIEW Folder>\examples\SLSC\Configuration.vi front panel under the related SLSC Chassis when the VI is executed. If the device does not appear in Configuration VI, use the following troubleshooting guidelines:

- ⇒ Verify that the related SLSC Chassis is present on NI MAX and Configuration VI.
- ⇒ Use 'Refresh' button on the Configuration VI for the SLSC Chassis.
- ⇒ Use 'Restart' button on the Configuration VI to restart the SLSC Chassis.
- ⇒ Power off and unplug the chassis, and install the device in a different slot.

PROGRAMMING THE DEVICE

Programming the Device in Software

To use DE9005 in software, DE9005 LabVIEW Driver must also be installed on the system. After the driver is installed, device control VIs can be found on Instrument I/O>Instr Drivers>DE9005 palette in LabVIEW. Driver also provides programming examples. For more information on the subject, refer to the User Manual of DE9005.

SAFETY GUIDELINES



Caution Do not operate the DE9005 in a manner not specified in this document. Product misuse can result in a hazard. You can compromise the safety protection built into the product if the product is damaged in any way. If the product is damaged, return it for repair.

COMPATIBILITY GUIDELINES

Electromagnetic Compatibility Guidelines

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC). These requirements and limits provide reasonable protection against harmful interference when the product is operated in the intended operational electromagnetic environment.

This product is intended for use in industrial locations. However, harmful interference may occur in some installations, if the product is connected to a peripheral device or test object, or if the product is used in residential or commercial areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions specified in the product documentation.

Furthermore, any changes or modifications to the product not expressly approved by DEICO could void your authority to operate it under your local regulatory rules.



Caution To ensure the specified EMC performance, operate this product only with shielded cables and accessories.

Caution To ensure the specified EMC performance, the length of any cable attached to connectors J1 and J2 must not be longer than 3 m (10 ft.)

NOTES

A series of horizontal dotted lines for writing notes.



Contact

DEICO Head Office

Teknopark Ankara, Serhat Mah.,
2224 Cad., No:1 F Blok, Z-12,
Yenimahalle, Ankara, Türkiye

support@deico.com.tr

+90 312 395 68 44



www.deico.com.tr

