NI-9375/9401/9402/94 Explosive Atmospheres User Guide



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Explosive Atmospheres UG NI 9375/9401/02/03/11/21/23/25/26/70/72/74/75/76/77/7

NI 9375: 30 V, 32-Channel (Sinking Input, Sourcing Output), 7 μs (Input)/500 μs (Output) C Series Digital Module

NI 9401: 5 V/TTL, 8 Bidirectional Channels, 100 ns C Series Digital Module

NI 9402: LVTTL, 4 Bidirectional Channels, 55 ns C Series Digital Module

NI 9403: 5 V/TTL, 32 Bidirectional Channels, 7 µs C Series Digital Module

NI 9411: ±5 V to 24 V, 6 Differential/Single-Ended Channels, 500 ns C Series Digital Module

NI 9421: 24 V, 8-Channel (Sinking Input), 100 µs C Series Digital Module

NI 9423: 24 V, 8 Channel (Sinking Input), 1 µs C Series Digital Module

NI 9425: 24 V, 32-Channel (Sinking Input), 7 μs C Series Digital Module

NI 9426: 24 V, 32 Channel (Sourcing Input), 7 µs C Series Digital Module

NI 9470: 5 VDC to 30 VDC, 8-Channel (Sourcing Output), 2 kHz C Series Digital Module

NI 9472: 24 V, 8-Channel (Sourcing Output), 100 µs C Series Digital Module

NI 9474: 30 V, 8-Channel (Sourcing Output), 1 µs C Series Digital Module

NI 9475: 60 V, 8-Channel (Sourcing Output), 1 µs C Series Digital Module

NI 9476: 36 V, 32-Channel (Sourcing Output), 500 µs C Series Digital Module

NI 9477: 60 V, 32-Channel (Sinking Output), 8 µs C Series Digital Module

NI 9478: 50 V, 16-Channel (Sinking Output), 50 µs C Series Digital Module

Physical Characteristics

Weight	
NI 9375 with push-in spring terminal	164 g (5.8 oz)
NI 9375 with spring terminal	159 g (5.6 oz)
NI 9375 with DSUB	148 g (5.3 oz)
NI 9401 with DSUB	145 g (5.1 oz)
NI 9402 with BNC	199 g (6.9 oz)
NI 9403 with DSUB	150 g (5.3 oz)
NI 9411	136 g (4.8 oz)
NI 9421 with screw terminal	166 g (5.9 oz)
NI 9421 with spring terminal	153 g (5.4 oz)
NI 9421 with DSUB	144 g (5.0 oz)
NI 9423 with screw terminal	150 g (5.3 oz)
NI 9423 with spring terminal	145 g (5.1 oz)
NI 9425 with spring terminal	163 g (5.7 oz)
NI 9425 with DSUB	147 g (5.2 oz)
NI 9426 with DSUB	147 g (5.2 oz)

NI 9470 with Ultra-Fit	140 g (4.9 oz)
NI 9472 with screw terminal	150 g (5.3 oz)
NI 9472 with spring terminal	139 g (4.9 oz)
NI 9472 with DSUB	145 g (5.1 oz)
NI 9474 with screw terminal	150 g (5.3 oz)
NI 9474 with spring terminal	139 g (4.9 oz)
NI 9475 with DSUB	142 g (4.9 oz)
NI 9476 with spring terminal	167 g (5.9 oz)
NI 9476 with DSUB	147 g (5.2 oz)
NI 9477 with DSUB	145 g (5.1 oz)
NI 9478 with DSUB	148 g (5.2 oz)
Dimensions Visit ni.com/dimensions and search by n	nodule number.

Note Some NI C Series modules offer two types of spring terminal connectors: push-in spring terminal and spring terminal. The black/orange push-in spring terminal connectors do not require a tool for signal connection; push the wire into the terminal when using solid wire or stranded wire with a ferrule, or by pressing the push button when using stranded wire without a ferrule. The black spring terminal connectors require a flathead screwdriver with a 2.3 mm × 1.0 mm (0.09 in. × 0.04 in.) blade for signal connection; insert the screwdriver into a spring clamp activation slot to open the corresponding connector terminal, press a wire

into the open connector terminal, and then remove the screwdriver from the activation slot to clamp the wire into place.

NI 9375 with Push-In Spring Terminal (Black/Orange Connector)

0.14 mm ² to 1.5 mm ² (26 AWG to 16 AWG) copper conductor wire
10 mm (0.394 in.) of insulation stripped from the end
90 °C, minimum
One wire per spring terminal; two wires per spring terminal using a 2-wire ferrule
ed 0.13 mm ² to 1.5 mm ² (26 AWG to 16 AWG) 10 mm barrel length
0.13 mm ² to 1.0 mm ² (26 AWG to 18 AWG) 12 mm barrel length
ed 2x 0.34 mm ² (2x 22 AWG) 12 mm barrel length
Screw flanges provided
0.2 N · m (1.80 lb · in.)

NI 9375 with Spring Terminal (Black Connector)

Spring terminal wiring		
Gauge	0.08 $\mathrm{mm^2}$ to 1.0 $\mathrm{mm^2}$ (28 AWG to 18 AWG) copper conductor wire	
Wire strip length	7 mm (0.28 in.) of insulation stripped from the end	
Temperature rating	90 °C, minimum	
Wires per spring terminal	One wire per spring terminal	
Connector securement		
Securement type	Screw flanges provided	
Torque for screw flanges	0.2 N · m (1.80 lb · in.)	

NI 9402

Cable	50 Ω BNC
Cable length	2 m maximum

NI 9411

Screw terminal wiring (Vsup)	
Gauge	0.05 mm ² to 1.5 mm ² (30 AWG to 14 AWG) copper conductor wire
Wire strip length	6 mm (0.24 in.) of insulation stripped from the end

Temperature rating	90 °C, minimum		
Torque for screw terminals	Torque for screw terminals 0.22 N \cdot m to 0.25 N \cdot m (1.95 lb \cdot in. to 2.21 lb \cdot in.)		
Wires per screw terminal	One wire per screw terminal; two wires per screw terminal using a 2-wire ferrule		
Ferrules	0.25 mm ² to 1.5 mm ²		
Connector securement			
Securement type	Screw flanges provided		
Torque for screw flanges	0.2 N · m (1.80 lb · in.)		

NI 9421 with Screw Terminal, NI 9423 with Screw Terminal

Screw terminal wiring		
Gauge	0.2 mm ² to 2.5 mm ² (26 AWG to 14 AWG) copper conductor wire	
Wire strip length	13 mm (0.51 in.) of insulation stripped from the end	
Temperature rating	90 °C, minimum	
Torque for screw terminals $0.5 \text{ N} \cdot \text{m}$ to $0.6 \text{ N} \cdot \text{m}$ (4.4 lb \cdot in. to 5.3 lb \cdot in.)		
Wires per screw terminal	One wire per screw terminal; two wires per screw terminal using a 2-wire ferrule	
Connector securement		

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Securement type

Screw flanges provided

Torque for screw flanges

0.2 N · m (1.80 lb · in.)

NI 9421 with Spring Terminal, NI 9423 with Spring Terminal

Spring terminal wiring		
Gauge	0.2 mm ² to 2.5 mm ² (30 AWG to 12 AWG) copper conductor wire	
Wire strip length	10 mm (0.39 in.) of insulation stripped from the end	
Temperature rating	90 °C, minimum	
Wires per spring terminal One wire per spring terminal; two wires per spring terminal using a 2-wire ferrule		
Connector securement		
Securement type	Screw flanges provided	
Torque for screw flanges	0.2 N · m (1.80 lb · in.)	

NI 9425 with Spring Terminal, NI 9476 with Spring Terminal

Spring terminal wiring	
Gauge	0.14 mm ² to 1.5 mm ² (26 AWG to 16 AWG) copper conductor wire

Wire strip length	10 mm (0.394 in.) of insulation stripped from the end
Temperature rating	90 °C, minimum
Wires per spring terminal	One wire per spring terminal; two wires per spring terminal using a 2-wire ferrule
Ferrules	0.14 mm ² to 1.5 mm ²
Connector securement	
Securement type	Screw flanges provided
Torque for screw flanges	0.2 N · m (1.80 lb · in.)

NI 9470 with Ultra-Fit

I/O plug type	Molex Ultra-Fit, part number 1722583116
Crimp terminal	
18 AWG to 16 AWG	Molex Ultra-Fit, part number 1722536012
22 AWG to 20 AWG	Molex Ultra-Fit, part number 1722536112
Wire gauge	22 AWG to 16 AWG

NI 9472 with Screw Terminal, NI 9474 with Screw Terminal

Screw terminal wiring

Gauge	0.2 mm ² to 2.5 mm ² (26 AWG to 14 AWG) copper conductor wire	
Wire strip length	13 mm (0.51 in.) of insulation stripped from the end	
Temperature rating	90 °C, minimum	
Torque for screw terminals $0.5 \text{ N} \cdot \text{m}$ to $0.6 \text{ N} \cdot \text{m}$ (4.4 lb \cdot in. to 5.3 lb \cdot in.)		
Wires per screw terminal	One wire per screw terminal; two wires per screw terminal using a 2-wire ferrule	
Ferrules	0.25 mm ² to 2.5 mm ²	
Connector securement		
Securement type	Screw flanges provided	
Torque for screw flanges	0.2 N · m (1.80 lb · in.)	

NI 9472 with Spring Terminal, NI 9474 with Spring Terminal

Spring terminal wiring	
Gauge	0.2 mm ² to 2.5 mm ² (30 AWG to 12 AWG) copper conductor wire
Wire strip length	10 mm (0.39 in.) of insulation stripped from the end
Temperature rating	90 °C, minimum
Wires per screw terminal	One wire per screw terminal; two wires per screw terminal using a 2-wire ferrule

Ferrules	0.25 mm ² to 2.5 mm ²		
Connector securement Securement type		Screw flanges provided	
Torque for screw flanges		0.2 N · m (1.80 lb · in.)	

Environmental

Refer to the manual for the chassis you are using for more information about meeting these specifications.

-40 °C to 70 °C	
-40 °C to 85 °C	
IP40	
10% RH to 90% RH, noncondensing	
5% RH to 95% RH, noncondensing	
2	
	5,000 m
	2,000 m
	5,000 m
	-40 °C to 70 °C -40 °C to 85 °C IP40 10% RH to 90% RH, noncondensing 5% RH to 95% RH, noncondensing 2

NI 9401	2,000 m
NI 9402	2,000 m
NI 9403	5,000 m
NI 9411	2,000 m
NI 9421	2,000 m
NI 9423	2,000 m
NI 9425	5,000 m
NI 9426	2,000 m
NI 9470	5,000 m
NI 9472	2,000 m
NI 9474	2,000 m
NI 9475	2,000 m
NI 9476 with spring terminal	5,000 m
NI 9476 with DSUB	2,000 m
NI 9477	2,000 m
NI 9478	2,000 m

Indoor use only.

Hazardous Locations

Explosive atmospheres rating	Ex nA IIC T4 Gc
CCC certificate number	2021312310000312

Safety Guidelines for Hazardous Voltages (Screw Terminal and Spring Terminal Products)

If hazardous voltages are connected to the device, take the following precautions. A hazardous voltage is a voltage greater than 42.4 Vpk voltage or 60 V DC to earth ground.

You may connect signals which may be floating at hazardous voltages only to the products with screw terminal or spring terminal connectors. Do not connect hazardous voltages to the NI 9375, NI 9470, or to products with DSUB or BNC connectors.

 \wedge

Caution Ensure that hazardous voltage wiring is performed only by qualified personnel adhering to local electrical standards.



Caution All wiring must be insulated for the highest voltage used.



Caution Do not mix hazardous voltage circuits and human-accessible circuits on the same module.



Caution Ensure that devices and circuits connected to the module are properly insulated from human contact.



Caution (NI 9421/9423) You must use the NI 9927 connector backshell to ensure that the terminals are not accessible.

Caution (NI 9472/9474) You must use the NI 9927 connector backshell kit with the product with screw terminal and the NI 9981 connector backshell kit with the product with spring terminal to ensure that the terminals are not accessible.

Safety Guidelines for Hazardous Locations

These products have been evaluated as Ex nA IIC T4 Gc equipment and are CCC certified. Each product is suitable for use within ambient temperatures of -40 °C \leq Ta \leq 70 °C in either nonhazardous locations or Zone 2 hazardous locations. If you are using the products in Gas Group IIC hazardous locations, you must use the device in an NI chassis that has been evaluated as Ex nA IIC T4 Gc equipment.

Follow these guidelines if you are installing the product in a potentially explosive environment. Not following these guidelines may result in serious injury or death.



Caution Do not disconnect I/O-side wires or connectors unless power has been switched off or the area is known to be nonhazardous.



Caution Do not remove modules unless power has been switched off or the area is known to be nonhazardous.



Caution Substitution of components may impair suitability for Zone 2.



Caution Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value of 85 V at the supply terminals to the equipment.



Caution The system shall only be used in an area of not more than Pollution Degree 2, as defined in IEC/EN 60664-1.



Caution The system shall be mounted in a CCC-certified enclosure with a minimum ingress protection rating of at least IP54 as defined in GB3836.1.

Caution The enclosure must have a door or cover accessible only by the use of a tool.

Safety Voltages

NI 9375

Connect only voltages that are within the following limits:

Channel-to-COM	30 V DC maximum
External power supply (Vsup) voltage range	e 6 V DC to 30 V DC, 18 mA
Isolation	
DI bank-to-DO bank	60 V DC maximum
Channel-to-Channel	No isolation between channels
Channel-to-earth ground	
Continuous	60 V DC, Measurement Category I
Withstand up to 3,000 m	1,000 V RMS, verified by a 5 s dielectric withstand test
Withstand up to 5,000 m (DSUB and push-in spring terminal)	860 V RMS



Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9401

Connect only voltages that are within the following limits:

Input range	0.8 V to 5.25 V
Output range	0.1 V to 4.7 V, 100 μA
Maximum voltage Channel-to-COM ±30 V maximum	on one channel at a time, Measurement Category I
Isolation voltages Channel-to-channel	None
Channel-to-earth ground	
Continuous 60 V DC, Measurer	nent Category I
Withstand 1,000 V RMS, verifi	ied by a 5 s dielectric withstand test

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9402

Input range	0.8 V to 5.25 V
Output range	0.1 V to 3.0 V, 100 μA

Input overvoltage protection	±30 V maximum on one channel at a time
Channel-to-earth ground	±30 V maximum, Measurement Category I
Isolation	
Channel-to-channel	None
Channel-to-earth ground	None

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9403

Input range	-0.25 V to 5.25 V
Output range	0.1 V to 5.2 V, 100 μA
Channel-to-COM	±30 V maximum on up to 8 channels at a time, Measurement Category I
Isolation	
Channel-to-chann	nel None
Channel-to-eartl	h ground
Continuous	60 V DC, Measurement Category I
Withstand	
up to 3,000 m alti	tude 1,000 V RMS, verified by a 5 s dielectric withstand test

up to 5,000 m altitude

860 V RMS, verified by a 5 s dielectric withstand test

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9411

Connect only voltages that are within the following limits.

Input range	0 V to 24 V single-ended -300 mV to 24 V differential		
	-7 V to 12 V common-mode		
Overvoltage protection, channel-to-COM	30 V maximum, Measurement Category I		
External power supply (Vsup)	5 V DC to 30 V DC		
Isolation			
Channel-to-channel	None		
Channel-to-earth ground			
Continuous 30 V RMS, 42.4 Vpk, 60 V DC	30 V RMS, 42.4 Vpk, 60 V DC		
Withstand 400 V RMS, verified by a 5 s d	400 V RMS, verified by a 5 s dielectric withstand test		



Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9421 with Screw Terminal, NI 9421 with Spring Terminal

Connect only voltages that are within the following limits:

Channel-to-COM		30 V maximum	
Overvoltage protection		40 V maximum	
Reverse-biased voltage		-30 V maximum	
Isolation			
Channel-to-channel		None	
Channel-to-earth ground			
Continuous 250	250 V RMS, Measurement Category II		
Withstand 2,3	2,300 V RMS, verified by a 5 s dielectric withstand test		

Caution Do not connect the product to signals or use for measurements within Measurement Categories III or IV.

NI 9421 with DSUB

Channel-to-COM	30 V maximum
Overvoltage protection	40 V maximum
Reverse-biased voltage	-30 V maximum

Isolation Channel-to-chann	nel None	
Channel-to-eart	h ground	
Continuous	60 V DC, Measurement Category I	
Withstand	1,000 V RMS, verified by a 5 s dielectric withstand test	

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9423 with Screw Terminal, NI 9423 with Spring Terminal

Channel-to-COM		30 V maximum	
Overvoltage protection		35 V maximum	
Reverse-biased voltage		-30 V maximum	
Isolation			
Channel-to-channel		None	
Channel-to-earth ground			
Continuous	250 V RMS, Measurement Category II		
Withstand	2,300 V RMS, verified by a 5 s dielectric withstand test		

Caution Do not connect the product to signals or use for measurements within Measurement Categories III or IV.

NI 9425 with Spring Terminal

Channel-to-COM	24 V	
I/O protection		
8 channels	60 V DC maximum	
	-60 V DC reverse-bias	
32 channels	30 V DC maximum	
	-30 V DC reverse-bias	
Channel-to-channel		
Up to 8 channels simultaneou	sly ±60 V maximum	
All channels simultaneously	±30 V maximum	
Isolation		
Channel-to-channel	None	
Channel-to-earth ground		
Continuous	250 V RMS, Measurement Category II	
Withstand up to 5,000 m	3,000 V RMS, verified by a 5 s dielectric withstand test	

Caution Do not connect the product to signals or use for measurements within Measurement Categories III or IV.

NI 9425 with DSUB

Channel-to-COM	24 V	
I/O protection		
8 channels	60 V DC maximum	
	-60 V DC reverse-bias	
32 channels	30 V DC maximum	
	-30 V DC reverse-bias	
Channel-to-channel		
Up to 8 channels simultaneou	sly ±60 V maximum	
All channels simultaneously	±30 V maximum	
Isolation		
Channel-to-channel	None	
Channel-to-earth ground		
Continuous	60 V DC, Measurement Category I	
Withstand up to 2,000 m	1,000 V RMS, verified by a 5 s dielectric withstand test	

Withstand up to 5,000 m

500 V RMS, verified by a 5 s dielectric withstand test

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9426

Connect only voltages that are within the following limits:

Vsup-to-channel		30 V DC maximum	
Isolation			
Channel-to-channel None		None	
Channel-to-earth ground			
Continuous	60 V DC, Measurement Category I		
Withstand	1,000 V RMS, verified by a 5 s dielectric withstand test		

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9470

Connect only voltages that are below these limits.

V _{sup} -to-COM	0 V DC to 30 V DC maximum, Measurement Category I	
Isolation		

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Channel-to-cha	nnel None
Channel-to-ea	rth ground
Continuous	60 V DC, Measurement Category I
Withstand	1,000 V RMS, verified by a 5 s dielectric withstand test

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9472 with Screw Terminal, NI 9472 with Spring Terminal

Connect only voltages that are within the following limits.

Channel-to-COM		30 V DC maximum	
External power supply (Vsup) voltage range		6 V DC to 30 V DC	
Isolation			
Channel-to-channel None			
Channel-to-earth ground			
Continuous	250 V RMS, Measurement Category II		
Withstand 2,300 V RMS, verified by a 5 s dielectric withstand test			
Channel-to-earth groundContinuous250 V RMS, Measurement Category IIWithstand2,300 V RMS, verified by a 5 s dielectric withstand test		nd test	



Caution Do not connect the product to signals or use for measurements within Measurement Categories III or IV.

NI 9472 with DSUB

Connect only voltages that are within the following limits.

Channel-to-CON	1		30 V DC maximum
External power supply (Vsup) voltage range		6 V DC to 30 V DC	
Isolation Channel-to-channel None		•	
Channel-to-earth ground			
Continuous	60 V DC, Measurement Category I		
Withstand 1,000 V RMS, verified by a 5 s dielectric withstand test			

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9474 with Screw Terminal, NI 9474 with Spring Terminal

Channel-to-COM	30 V DC maximum	
External power supply (Vsup) voltage range	5 V DC to 30 V DC	
Isolation Channel-to-channel None		
Channel-to-earth ground		

Continuous 250 V RMS, Measurement Category II

Withstand 2,300 V RMS, verified by a 5 s dielectric withstand test



NI 9475

Connect only voltages that are within the following limits:

Vsup-to-COM		60 V DC maximum, Measurement Category I	
Isolation			
Channel-to-cha	nnel	None	
		•	
Channel-to-ea	rth ground		
Continuous	60 V DC	60 V DC, Measurement Category I	
Withstand	1,000 V	V RMS, verified by a 5 s dielectric withstand test	

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9476 with Spring Terminal

External power supply (Vsup) voltage range	6 V DC to 36 V DC

V _{sup} -to-COM		40 V DC maximum
DO		V _{COM} ≤ V _{DO} ≤ V _{sup}
Isolation		
Channel-to-channel	None	
Channel-to-earth ground		
Continuous	250 V RMS, Measurement Category II	
Withstand up to 5,000 m	3,000 V RMS, verified by a 5 s dielectric withstand test	

Caution Do not connect the product to signals or use for measurements within Measurement Categories III or IV.

NI 9476 with DSUB

External power supply (Vsup) voltage range	6 V DC to 36 V DC
V _{sup} -to-COM	40 V DC maximum
DO	$V_{COM} \le V_{DO} \le V_{sup}$
Isolation	
Channel-to-channel N	lone
Channel-to-earth ground	

Continuous

60 V DC, Measurement Category I

Withstand up to 2,000 m 1,000 V RMS, verified by a 5 s dielectric withstand test

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9477

Connect only voltages that are within the following limits:

External power su	pply (Vsup) voltage range	0 V DC to 60 V DC
Channel-to-COM		60 V DC maximum, Measurement Category I
Isolation		
Channel-to-channel None		None
Channel-to-eart	h ground	
Continuous	60 V DC, Measurement Category I	
Withstand	1,000 V RMS, verified by a 5 s dielectric withstand test	

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

NI 9478

External power su	ıpply (Vsup) voltage range	0 V DC to 50 V DC
Vsup-to-COM		50 V DC maximum, Measurement Category I
Isolation Channel-to-chan	nel	None
Channel-to-ear	th ground	
Continuous	60 V DC, Measurement Category I	
Withstand	1,000 V RMS, verified by a 5 s dielectric withstand test	

Caution Do not connect the product to signals or use for measurements within Measurement Categories II, III, or IV.

Installing C Series Modules

Verify that power is not connected to the I/O connector(s) on the C Series module.

Removing C Series Modules

Verify that power is not connected to the I/O connector(s) on the C Series module before you remove a module from the chassis.

Safety Compliance and Hazardous Locations Standards

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1
- IEC 60079-0: Ed 6, IEC 60079-15; Ed 4
- GB3836.1, GB3836.8

Note For safety certifications, refer to the product label or the <u>Product</u> <u>Certifications and Declarations</u> section.

Product Certifications and Declarations

To obtain product certifications and the DoC for NI products, visit <u>ni.com/product-</u> <u>certifications</u>, search by model number, and click the appropriate link.

Worldwide Support and Services

NI corporate headquarters is located at 11500 North Mopac Expressway, Austin, Texas, 78759-3504, USA.