

Operators Manual

Doc #PI0257 Rev 1.0



Quick Startup



The two units that are packaged together are factory paired and will only communicate with each other.

Check initial operation

Connect a 9V battery (not included) to the 9V cable (included) and plug the two-position connector into the '+VIN' and '-VIN' positions on the bottom edge connector. Once both units are powered up, the green POWER LED should be ON steady on each unit. Momentarily press the 'TEST' button on either unit to test communication between the two units. One or more of the blue Signal Strength LEDs should light up for one second to indicate that successful communication has occurred between the two units.

Perform a Range-Test from the desired install locations

With the 9V batteries plugged in to each of the units, place them at the desired install location points and perform a Range-Test by momentarily pressing the 'TEST' button. The received signal strength is displayed for one second on the six blue LEDs with the bottom blue LED indicating the minimum signal strength and all six LEDs indicating maximum signal strength.

Connect to permanent power

Connect the desired permanent power source at each unit and perform several Range-Tests to check for adequate input power.

Wire the input and output functions

Wire the desired devices at each unit.



The maximum voltage that can be applied to any of the relay inputs (R1AIN – R8AIN / R1BIN – R8BIN) is **5VDC**. A dry contact closure or a 0 to 5VDC digital interface are acceptable.

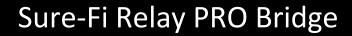




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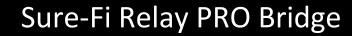




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Part Numbers

DS010-RELAYPRO	Relay PRO Bridge system: includes 1 ea. SFI-RP601-01 & SFI-RP602-01
SFI-RP601-01	Relay PRO UNIT A
SFI-RP602-01	Relay PRO UNIT B

Overview

The Sure-Fi DS010-RELAYPRO system consists of two factory paired units that are ready to use with no configuration required. The Relay PRO UNIT A Interface wires to the Control Panel and communicates wirelessly to the Relay PRO UNIT B Interface, which is placed out at the peripheral and any relay/switch activated device. The Sure-Fi App provides for configuration, diagnostics, and field firmware updates.

Key Features

- Includes complete wireless solution for up to eight relay activated devices on each unit
- Range: up to 1 mile through obstructions and greater than 50 miles line-of-sight
- Relays: seven FORM C and one FORM A relays on each unit
- Chain multiple system pairs for extended range
- DIN rail mount or direct wall mount
- Sure-Fi App connects via Bluetooth for diagnostics and firmware updates





General Specifications

Operating Voltage: 12 to 30V AC/DC

Operating Current (@ 24VAC): 0.02A (idle), 0.26A (transmit)

Operating Power (@ 24VAC): 6.3VA (peak)

Relay Inputs (R1IN – R8IN): Dry contact or digital 0 to 3.3VDC/5.0VDC interface

Relays 1 & 2: Two Form C Mechanical Relays, 5A 220VDC / 250VAC

Relays 3 – 7: Five Form C solid state relays, 2A 30VDC / 30VAC

Note: Maximum allowable combined current is 3A

Relay 8: One Form A solid state Relay, 0.75A 30VDC / 30VAC

Range: Up to 1 mile through obstructions. Greater than 50 miles line-of-sight

Can chain multiple system pairs for extended range

Encryption: AES128

Operating Temperature: -40°F to +158°F (-40°C to +70°C)

Storage Temperature: -67°F to +257°F (-55°C to +125°C)

Humidity: 0 to 85% non-condensing

Dimensions (L x W x H): 3.54" x 5.30" x 1.28" (90mm x 135mm x 32.5mm)

DIN mount type: 35mm DIN rail (DIN46277-3) / (DIN35)

Degree of Protection: IP20 to IEC/EN 60529

Radio Transceiver Specifications

Transmit Power: 1 Watt (30dBm)

Frequency Band: 902 – 928MHz

Channels: 72 (FHSS)

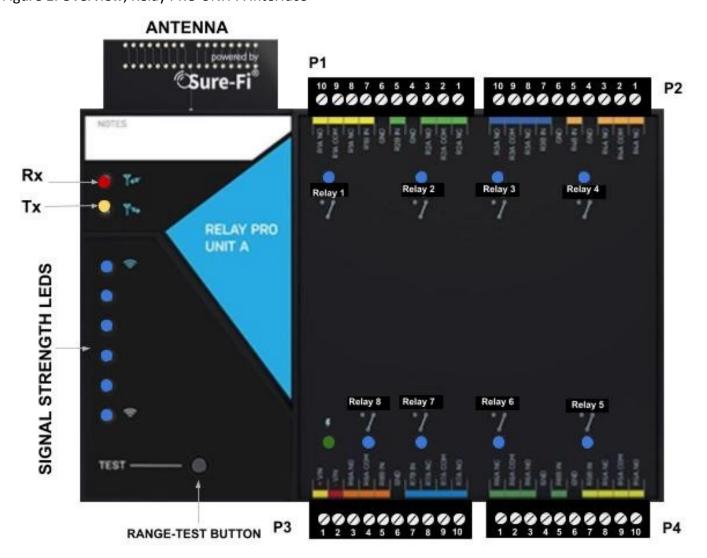
Receiver Sensitivity: -133dbm

Link Budget: 163dB



Device Overview

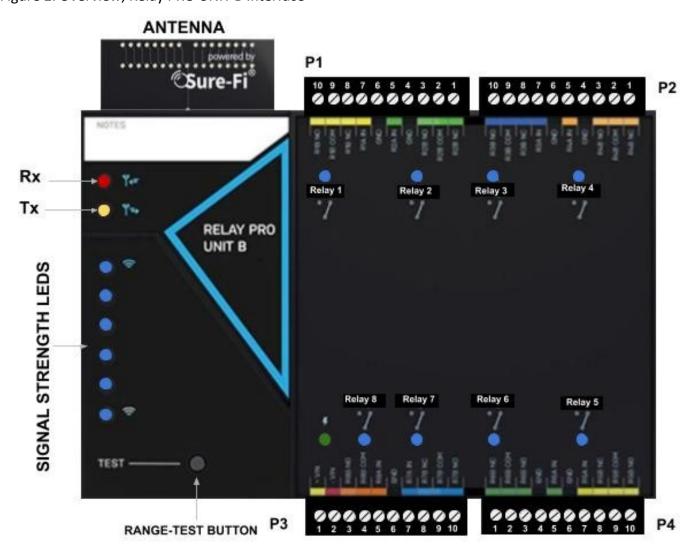
Figure 1: Overview, Relay PRO UNIT A Interface





Device Overview

Figure 2: Overview, Relay PRO UNIT B Interface





Relay Pro UNIT A Interface connectors

Table 1: Top Edge UNIT A connector P1. See Figure 1 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P1	1	R2A NC	Relay 2A Normally-Closed terminal
P1	2	R2A COM	Relay 2A Common terminal
P1	3	R2A NO	Relay 2A Normally-Open terminal
P1	4	GND	Ground
P1	5	R2B IN	Relay 2 UNIT B Input
P1	6	GND	Ground
P1	7	R1B IN	Relay 1 UNIT B Input
P1	8	R1A NC	Relay 1A Normally-Closed terminal
P1	9	R1A COM	Relay 1A Common terminal
P1	10	R1A NO	Relay 1A Normally-Open terminal

Table 2: Top Edge UNIT A connector P2. See Figure 1 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P2	1	R4A NC	Relay 4A Normally-Closed terminal
P2	2	R4A COM	Relay 4A Common terminal
P2	3	R4A NO	Relay 4A Normally-Open terminal
P2	4	GND	Ground
P2	5	R4B IN	Relay 4 UNIT B Input
P2	6	GND	Ground
P2	7	R3B IN	Relay 3 UNIT B Input
P2	8	R3A NC	Relay 3A Normally-Closed terminal
P2	9	R3A COM	Relay 3A Common terminal
P2	10	R3A NO	Relay 3A Normally-Open terminal



Relay Pro UNIT A connectors (cont.)

Table 3: Bottom Edge UNIT A connector P3. See Figure 1 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P3	1	+VIN	+ VDC input or VAC input
P3	2	-VIN	- VDC input or AC common input
Р3	3	R8A NO	Relay 8A Normally-Open terminal
Р3	4	R8A COM	Relay 8A Common
P3	5	R8B IN	Relay 8B UNIT B Input
P3	6	GND	Ground
P3	7	R7B IN	Relay 7B UNIT B Input
P3	8	R7A NC	Relay 7A Normally-Closed terminal
P3	9	R7A COM	Relay 7A Common terminal
P3	10	R7A NO	Relay 7A Normally-Open terminal

Table 4: Bottom Edge UNIT A connector P4. See Figure 1 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P4	1	R6A NC	Relay 6A Normally-Closed terminal
P4	2	R6A COM	Relay 6A Common terminal
P4	3	R6A NO	Relay 6A Normally-Open terminal
P4	4	GND	Ground
P4	5	R6B IN	Relay 6 UNIT B Input
P4	6	GND	Ground
P4	7	R5B IN	Relay 5 UNIT B Input
P4	8	R5A NC	Relay 5A Normally-Closed terminal
P4	9	R5A COM	Relay 5A Common terminal
P4	10	R5A NO	Relay 5A Normally-Open terminal



Relay Pro UNIT B Interface connectors

Table 5: Top Edge UNIT B connector P1. See Figure 2 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P1	1	R2B NC	Relay 2B Normally-Closed terminal
P1	2	R2B COM	Relay 2B Common terminal
P1	3	R2B NO	Relay 2B Normally-Open terminal
P1	4	GND	Ground
P1	5	R2A IN	Relay 2 UNIT A Input
P1	6	GND	Ground
P1	7	R1A IN	Relay 1 UNIT A Input
P1	8	R1B NC	Relay 1B Normally-Closed terminal
P1	9	R1B COM	Relay 1B Common terminal
P1	10	R1B NO	Relay 1B Normally-Open terminal

Table 6: Top Edge UNIT B connector P2. See Figure 2 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P2	1	R4B NC	Relay 4B Normally-Closed terminal
P2	2	R4B COM	Relay 4B Common terminal
P2	3	R4B NO	Relay 4B Normally-Open terminal
P2	4	GND	Ground
P2	5	R4A IN	Relay 4 UNIT A Input
P2	6	GND	Ground
P2	7	R3A IN	Relay 3 UNIT A Input
P2	8	R3B NC	Relay 3B Normally-Closed terminal
P2	9	R3B COM	Relay 3B Common terminal
P2	10	R3B NO	Relay 3B Normally-Open terminal



Relay Pro UNIT B connectors (cont.)

Table 7: Bottom Edge UNIT B connector P3. See Figure 2 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P3	1	+VIN	+ VDC input or VAC input
P3	2	-VIN	- VDC input or AC common input
Р3	3	R8B NO	Relay 8B Normally-Open terminal
Р3	4	R8B COM	Relay 8B Common
P3	5	R8A IN	Relay 8 UNIT A Input
P3	6	GND	Ground
P3	7	R7A IN	Relay 7 UNIT A Input
P3	8	R7B NC	Relay 7B Normally-Closed terminal
Р3	9	R7B COM	Relay 7B Common terminal
P3	10	R7B NO	Relay 7B Normally-Open terminal

Table 8: Bottom Edge UNIT B connector P4. See Figure 2 for connector location and pin numbers

CONNECTOR	POSITION	NAME	DESCRIPTION
P4	1	R6B NC	Relay 6B Normally-Closed terminal
P4	2	R6B COM	Relay 6B Common terminal
P4	3	R6B NO	Relay 6B Normally-Open terminal
P4	4	GND	Ground
P4	5	R6A IN	Relay 6 UNIT A Input
P4	6	GND	Ground
P4	7	R5A IN	Relay 5 UNIT A Input
P4	8	R5B NC	Relay 5B Normally-Closed terminal
P4	9	R5B COM	Relay 5B Common terminal
P4	10	R5B NO	Relay 5B Normally-Open terminal



Relays

Operating the relays

The relay outputs are operated by the corresponding relay inputs that are on the paired unit. For example, to energize Relay 1A on UNIT A, the Relay 1A input (R1A IN) on the UNIT B must be shorted to ground (OVDC) using a dry contact switch (relay closure, push-button, etc.), or a digital voltage 0 to 3.3VDC or 0 to 5VDC interface. This can be tested by connecting a switch or a jumper wire to the R1A IN and GND and then monitor Relay 1A output on UNIT A for activation of the relay. Each relay output has a corresponding LED that will illuminate when the relay is in the activated (energized) state.

Relay In/out control

Relays 1A – 8A located on UNIT A are operated by R1A IN - R8A IN on UNIT B.

Relays 1B – 8B located on UNIT B are operated by R1B IN - R8B IN on UNIT A.

The Test Push Button (Range Test)

Range Test: Pressing and releasing the 'Test' button quickly initiates the Range Test. The Range Test feature is used to test the signal strength of the radio transceiver with the paired unit and displays the results of a received transmission on the six blue LEDs, these are labeled 'Signal Strength LEDS (1-6)' in Figure 1. Maximum signal strength is indicated when LEDs 1 through 6 all flash ON and minimum signal strength is indicated when only LED 1 flashes ON

Antenna

The radio antenna is created using copper traces on both sides of the PC Board. Use caution when handling and mounting the unit to ensure that no damage (scratches, etc) occurs to the PC Board/Antenna. Additionally, for best performance, keep cables and wiring away from the antenna and mount the unit oriented with the antenna upwards.

Connectors

The connectors are 3.5mm EURO type. The mating plug is Molex pn 39500-0010. Wire Range: 16 to 30AWG stranded or solid. Wire strip length 0.250". Recommended screwdriver: slotted blade 0.98" (2.5mm) width. To install a wire, turn the screw counter-clockwise 3 or 4 turns, insert the wire and hold in place while tightening the screw. When complete, pull on the wire to ensure that it is tightened adequately.

Chain multiple system pairs for extended range

If a single paired system is unable to communicate from the desired two endpoints, a second paired system can be used to create a 'chain' to extend the range. If required, many paired systems can be 'chained' together for extremely difficult installations. To accomplish this, each paired system in the chain is wired to another paired system to pass the signals between them.



Mounting

DIN Rail mount

DIN rail mounting allows the unit to easily clip and unclip from the DIN rail. Attach a piece (minimum 5" length) of 35mm type DIN rail to the wall and then snap the unit to the DIN rail or slide it on from the end. The unit will snap in to place by putting the top retaining tabs on to the DIN rail first, then pressing the bottom on to the DIN rail until it snaps in to place, the bottom DIN clip may need to be pressed upward to seat into its locked position. To remove the unit from the DIN rail, use a small screwdriver, insert in to the bottom DIN rail clip and pull gently down and outward until the unit releases from the DIN rail.

Screw mount

The DIN rail clips on the base of the enclosure case can be snapped outward to allow for screw mounting of the case. Mount using only the single bottom DIN clip and the top DIN clip that is located on the side below connector P1. Do not use the DIN clip located behind the antenna. See Figures 9, 10, and 11.



If mounting the unit to metal, take note that metal shavings that are created can drop into the unit and damage the electronics. To avoid any metal shavings from dropping down in to the case, it is recommended to remove the top DIN clip completely from the base and secure it to the wall first, then slide the case on to the DIN clip. The second screw can then be secured through the bottom DIN clip without removing the clip. #8 self-drilling screws are recommended. Do not use any screw that is larger than a #8 size.







Figure 10: The top screw is shown mounted through the DIN clip to the wall:

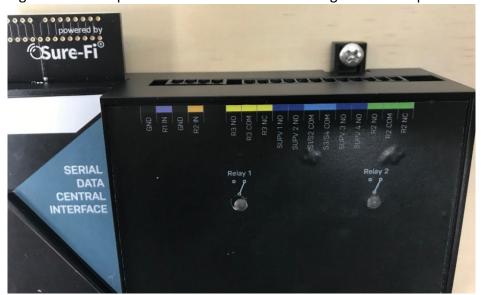


Figure 11: The bottom screw is shown mounted through the black DIN clip to the wall:





Sure-Fi App

The Sure-Fi App for iOS and Android allows for firmware updates, configuration and customization as well as for some diagnostics and troubleshooting information. The App is continually being updated to provide for more information and features and to improve its ease of use. To download, search for 'Sure-Fi' and then download and install. The key features of the App are:

- Field firmware updates
- Configure the six Signal Strength LED indicators for ON/OFF, persistence time (default is ON, 1 second)
- Setting default Relay output values upon a set timeout interval (in increments of the Heartbeat time).
- Setting the system Heartbeat time.
- Diagnostics and Troubleshooting information
- Access to documentation (Operators Manual, Application Notes, Reference documents, etc.)

Using the Sure-Fi App

Connecting

The Sure-Fi App uses the Bluetooth on the user's phone to connect to the Bridge's onboard Bluetooth interface. To use the App, be sure that the unit is powered ON, then open the App, then scan the QR code that is on the unit next the 'TEST' button. The Status will show 'Connecting', then after a pause it will say "Hold Test button on the Bridge for 5 seconds". If the connection is successful, the status will show 'Status: Connected' and all the features of the App will be available for use.

Firmware Updating



Firmware updates must be completed on both UNIT A and UNIT B when updating the firmware of either side. The Bridge pair may operate erratically or be non-functional until both sides have been updated to a new firmware version. If updating firmware on one side, plan to immediately go to the other side and perform the same firmware update.

A data connection must be available on the device (phone) that the Sure-FI App is running on. Be sure that the App remains connected to the Bridge unit during the update process which usually takes a couple minutes to complete. After connecting to the Bridge unit with the App, select 'Update Firmware' from the menu. The 'Update Firmware' screen will show the current firmware versions and show if a newer released version is available. Select 'Start Firmware Update" to begin the updating process. A notification will be given when the update is complete. When complete, close the App and then power-cycle the unit.



Sure-Fi Relay PRO Bridge

Setting the System Heartbeat time

The system Heartbeat is the time interval when the system will automatically perform a system status check if there have not been radio communications between the units during that time. The Heartbeat timer is reset each time any successful transmission occurs between units during regular usage. The Heartbeat system status check verifies communication between units and that all output states correspond correctly with the given inputs. If a unit does not receive the Heartbeat, it will continue to attempt communications and it will keep all outputs set at their current state unless any of the outputs have been set for fail-safe values using the Sure-Fi App. In that case, the unit will set the output values as configured when the set time interval is reached. The Heartbeat time interval and the number of Heartbeats that can be missed are configurable with the App.

Setting a Relay default state and timeout

This feature is defaulted from the factory as disabled. With Relay default state disabled, the relays will remain in their current state during any time that communications with the paired unit are interrupted. The relays can be set to default as activated or deactivated after a set time interval has passed if communication with the paired unit is interrupted. The time interval is based on multiples of the Heartbeat time. When the time interval is reached, the relay(s) will go to the selected default state (activated or deactivated) as configured in the Sure-Fi App and will remain in that state until regular system activity returns. This feature provides a way to define the relay default state if communications between units is interrupted for a period of one or more Heartbeat time intervals.

Setting a relay as an RF-Link or Alert Relay

An RF-Link/Alert Relay is a method of monitoring one of the system relays to indicate if the RF communications with the paired unit is lost and to indicate if power is lost on the Alert Relay unit. After designating a relay to be used as the RF-Link/Alert Relay, open the Sure-Fi App and set the relay default state as enabled and set the default state to be deactivated by setting the relay common terminal to show that it is connected the relay NC terminal, save this setting and exit the App. Now, on the paired unit set the relay to be ON/activated by shorting the relay input control to ground. For example, if using Relay 8A on UNIT A as the Alert Relay, set R8A IN on UNIT B with a jumper wire from R8A IN to the adjacent GND terminal. With R8A IN on UNIT B connected to ground, the Relay 8A on UNIT A will be activated allowing the R8A NO to be shorted to the R8A COM terminal. The Relay 8A NO terminal will now remain shorted to the R8A COM terminal until either of the following two things occur: 1) RF communication with the UNIT B is lost for the designated Heartbeat time and count as configured in the Sure-Fi App, 2) power is lost at the UNIT A.



Troubleshooting

Testing Range and RF communications

Press and release the 'Test' button on one of the units and observe the six Signal Strength LEDs. If any of the blue LED 1 through LED 6 lights up momentarily then the transmission between the two units was successful. This establishes that the radio communications between the two units is operational and even with only the LED 1, there is adequate signal strength for proper function.

For the best RF performance between units

- 1. Power both units with their own dedicated power supply.
- 2. Route all cables and wiring away from the area near the Antenna.
- 3. Avoid routing cables and wiring over the top of the unit.
- 4. Mount both units oriented with the antenna at the top of the unit facing upwards.
- 5. Rotating either (or both) of the units may provide an improvement in range.
- 6. If additional range is required, avoid placing either unit on or near metal and place each unit at a higher location.

Manually Testing Relays

Each relay can be manually tested to verify operation. Using a switch or a jumper wire, short the relay input, such as R1A IN to GND, then monitor the Relay 1A output on the bridge pair unit. This can be done on all eight relays.

Sure-Fi Relay PRO Bridge



FCC and Industry Canada Regulatory Statements

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly Approved by manufacturer could void the user's authority to operate the equipment.

IMPORTANT! Any changes or modifications not expressly Approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent Appareil est conforme aux CNR d'Industrie Canada Applicables aux Appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'Appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'Appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

IMPORTANT! Tous les changements ou modifications pas expressément Approuvés par la partie responsable de la conformité ont pu vider l'autorité de l'utilisateur pour actioner cet équipment.

47 CFR 15.105- FCC

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/ TV technician for help.

This Class B digital Apparatus complies with Canadian ICES-003. Cet Appareil numérique de la classe B est conforme à la norme NMB-003 du Canada



Sure-Fi Relay PRO Bridge

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Important Note:

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Note Importante: (Pour l'utilisation de dispositifs mobiles)

Declaration d'exposition aus radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipment doit être installé et utilisé avec un mimimum de 20 cm de distance entre la source de rayonnement et votre corps.

Warranty

The warranty period of this product is 12 months run-time, beginning from first power up of the device after purchase. During this period, if the product does not operate correctly, due to a defective component, the product will be repaired or replaced at the sole discretion of Sure-Fi, Inc. This warranty does not extend to the product casing which can be damaged by conditions outside of the control of Sure-Fi, Inc.

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