

Generic Bank Branch System Information

Before installing any equipment, complete the following section.

Account Number _____
 Address _____
 Phone Number _____
 DHCP _____
 Control Panel IP Address _____
 Gateway Address _____
 Subnet Mask _____
 Programming Port _____
 Installation Date _____
 Installer Name _____
 Customer Job # _____

1. System Components—Lev. A (KIT-XXX-550BRANCH)

The system package includes the following components:

- One XR550DN in 350 Enclosure with Lock and Key
- One 263LTE-V Cellular Communicator with Cable
- One 381-12 SMA Extension Cable (12')
- One 386 Antenna Mount Bracket
- One 1100XH-W High-Powered Wireless Receiver
- One 324 100 VA Transformer
- One 7060 32-Character LCD Keypad
- One 696 Keypad Backbox
- One 698 Keypad Back Plate
- Ten 1142 Two-button Holdup Transmitters
- Two 305 Plug-in Output Relays
- One 431 Output Harness
- Two 3012 Clip-on Tamper Switches
- One 306 Tamper Harness
- Two 318 Dual Battery Harnesses
- One 318R Dual Battery Harness with Ring Terminals
- One 318EXT Battery Harness Extension
- Two 365 12 VDC 9.0 Ah Batteries
- Two 366 12 VDC 18 Ah Batteries
- One 357-10 Black CAT 5e Cable (10')
- One 714-8 Expansion Module in 350 Enclosure
- One 330 Programming Cable
- Conduit Accessories

2. Reference Information

⚡ Caution: Remove all transformer and battery power from the panel before installing or connecting any modules, cards, or wires.

System Grounding

The XR550 Series panel Terminal 4 can be connected to earth ground using 14 gauge or larger wire. Connect to a cold water pipe, ground rod, or building ground when available. Connection to an electrical ground or conduit can also be used. Gas pipes or sprinkler pipes should not be used. A ground connection is not required to provide normal system operation.

System Wiring

All wiring must be in accordance with NEC, ANSI, and NFPA 70. Use non-shielded 22 AWG wire for short wire runs from the panel. Use non-shielded 18 AWG wire for longer wire runs from the panel. Refer to the LX-Bus/Keypad Bus Wiring Note (LT-2031). It is recommended that strain reliefs be used in all locations where wires exit an enclosure and conduit is not used.

DMP recommends using 18 or 22-gauge unshielded wire for all keypad circuits. Do not use twisted pair or shielded wire for Keypad Bus data circuits. To maintain auxiliary power when using 22-gauge wire, do not exceed 500 feet. When using 18-gauge wire, do not exceed 1,000 feet. For longer runs, install an additional power supply or repeater.

Ensure all connections from the panel enclosure to the battery enclosure and from the power supply enclosure to the battery enclosure are in 3/4" conduit. DMP recommends using strain reliefs in all locations where wires exit an enclosure and conduit is not used.

Reference Documents

Refer to the documents listed below as needed.

- XR150/XR550 Series Installation Guide (LT-1233)
- XR150/XR550 Series Programming Guide (LT-1232)
- 7000 Series Keypad Installation Guide (LT-0883)
- 263LTE Installation Guide (LT-1592)
- 1100XH Wireless Receiver Installation Guide (LT-0970)
- 714-8/714-16 Installation Guide (LT-0401)
- 1142 Series Two-Button Transmitter Installation Guide (LT-0700)
- Any documentation included with the system components

Current Draw

Combined current draw from XR550 Auxiliary (Terminal 7), Smoke (Terminal 11), X-Bus, and LX-Bus must not exceed 425 mA in order to support 80 hours of standby operation. Ensure the total current draw of optional devices does not exceed the 425 mA of power supplied by the panel or install a separate power supply.

3. Mount the Enclosures

Prior to mounting and as needed, open any enclosure knockouts. Mount the panel enclosure in a secure, dry place to protect the components from damage. It is not necessary to remove the pre-mounted components when installing the enclosure. Make sure all wiring in the enclosure is routed neatly and securely to keep the wiring off the panel and power supplies.

Mount the 714-8 enclosure to the right of the XR550 panel enclosure in a secure, dry place to protect the equipment from damage due to tampering or the elements. Use the supplied conduit pieces to connect the panel and 714-8 enclosures through the side knockouts as shown in Figure 1.

Mount the 324 Transformer enclosure to the left of the XR550 panel enclosure in a secure, dry place to protect the equipment from damage due to tampering or the elements. Use the supplied conduit pieces to connect the panel and 714-8 enclosures through the side knockouts as shown in Figure 1.

4. Mount the Model 3012 Tamper Switches

Use 22 AWG wire as needed to wire the tamper switches in series. Clip the Model 3012 Tamper Switches in the bottom right of both enclosures with the button protruding past the enclosure edge. Plug the 306 tamper harness onto the panel J4 tamper header. Connect tamper switches in series to the 306 tamper harness as shown in Figure 1.

5. Install the 263LTE-V Cellular Communicator

⚡ Caution: Before installing the 263LTE-V, ensure power to the panel is disconnected. Failure to do so may result in equipment damage.

For installation details, refer to Figure 1.

1. Record the device SIM for programming later.
2. Insert the included standoff into the XR550 Series panel standoff hole.
3. Secure the 263LTE-V on the 12-pin Cell Module connector.
4. Align the 263LTE-V standoff hole with the standoff already placed in the panel and snap it into place.

6. Connect the 263LTE-V Antenna

1. Remove one of the available 1/2" knockouts from the top of the enclosure. If no knockouts are available, drill a 1/2" hole through the top of the enclosure. The antenna must be mounted vertically.
2. Connect the 381-2 coax cable to the 263LTE SMA connector.
3. Place one washer on the 381-2 SMA connector and push the threaded end through an open enclosure knockout.
4. Place the second washer on the threaded end extending through the knockout and thread a nut onto the connector.
5. Attach the 381-12 SMA Extension Cable to the SMA connector on the top of the panel enclosure.
6. Mount the 386 Antenna Mount Bracket where instructed by the customer.
7. Run the 381-12 cable to the bracket. Place one washer on the 381-2 SMA connector and push the threaded end through the bracket.
8. Place a washer on the threaded end extending through the bracket and thread a nut onto the connector.
9. Attach the 383 Antenna to the SMA connector on top of the 386 bracket.

7. Connect the Ethernet Cable

Using the Cat 5e network cable (357-10), plug one end into the XR550 panel Ethernet connector. Run the other end through a strain relief and plug the network cable into the customer-supplied network connector.

8. Mount the 1100XH Wireless Receiver

Choose an optimal location to mount the receiver. Ensure the 1100XH is centrally located between the 1100 Series transmitters used in the installation. Be sure to mount the receiver away from large metal objects and equipment enclosures because it may impair the receiver's performance. Do not mount above T-Bar ceilings. Do not use shielded wire between the panel and receiver. The 1100XH can be mounted up to 500 ft (150 m) from the panel using 22 AWG or 1000 ft (300 m) using 18 AWG.

1. Remove the cover from the plastic housing.
2. Secure the receiver to the surface, ensuring the wall tamper switch makes proper contact with the wall.
3. Connect the PANEL header on the 1100XH to the XR150/XR550 panel XBUS header.

9. Install the 696 Backbox and 7060 Keypad

Mount the 7060 Keypad to the 696 Backbox and secure the cabling to the backbox to allow keypad access for operations.

Use the included 4-wire harness to connect the XR550 Keypad Bus wiring to Terminals 7, 8, 9, and 10. Observe wire colors when connecting the red, yellow, green, and black wires to the Keypad Bus.

10. Install 1142 Holdup Transmitters

Before mounting the 1142, confirm communication with the panel using the survey LED. For more information, refer to the 1142 Installation Guide (LT-0700).

1. Insert a small flat-head screwdriver into the access slot on either end of the 1142 housing and gently turn the screwdriver to separate the two parts.
2. Place the base with the LED cutout toward the front edge of the counter and use the two supplied Phillips head screws to mount the base.
3. Align the top housing and LED with the base cut out and snap the two halves together.

11. Wire the 714-8 Zone Expander

Note: For detailed mounting location information, refer to Figure 1.

1. Set the KPD LX on the zone expander to LX. Set the rotary switches to 2, 4 on the 714-8 Zone Expander to enable LX-Bus zones 524-531.
2. Connect the 714-8 to the XR550 LX500 header. For additional information, refer to Figure 2.
3. Connect additional 714-8 Zone Expanders as needed.

12. Wire the Zones

Zones 1-10 are located directly on the XR550 panel. Wire the zones as required. Zones 1 through 8 use 1K Ohm EOL resistors and Zones 9 and 10 use 3.3K EOL resistors.

Keypad Bus expansion zones are numbered in groups of four corresponding to the address. Example: address 1 is zones 11-14 and address 16 is zones 161-164. There are a maximum of 64 zones possible on the Keypad Bus. All keypad zones terminate with a 1k Ohm EOL resistor.

When using the LX500 header, 100 zones numbered 500-599 are available.

13. Wire the Batteries

DMP requires each battery be separated by a PTC in the battery harness wiring to protect each battery from a reversal or short within the circuit. For wiring details, refer to Figure 1.

Caution: Observe polarity when connecting batteries. Wire all batteries in parallel. Ensure all battery harness connectors are fully inserted to prevent shorting.

1. In the panel enclosure, connect the 14" Black battery wire to panel Terminal 4. Connect the 14" Red battery wire to panel Terminal 3.
2. Plug the 14" Red and Black battery wires onto one 318 Dual Battery Harness.
3. Use the non-PTC protected side of the first 318 and plug onto a second 318 Dual Battery Harness. Connect the second 318 Dual Battery Harness to the two Model 365 9.0 Ah batteries located in the panel enclosure.
4. Use the PTC protected side of the first 318 and plug onto the 318EXT Battery Harness Extension. The 318EXT passes through the conduit easier if fed from the 714-8 enclosure.
5. In the 714-8 enclosure, connect the 318EXT to the 318R Dual Battery Harness (ring terminals). Connect the 318R to the two Model 366 18 Ah batteries located in the 714-8 enclosure.
6. Label each battery with the installation date.

14. Complete Hardware Installation

Ensure all devices are properly addressed and all LX-Bus and Keypad Bus wiring is free of grounds, wire-to-wire shorts, and interference. Ensure all field devices are properly terminated to the panel zone inputs.

15. Connect the Transformer and AC Power

Caution: Do not plug in the transformer until all devices are connected to the panel and the batteries are wired. Never share the transformer output with other equipment.

Run the transformer wires (18 AWG minimum) into the panel enclosure through a conduit. Wire the transformer as follows:

- Black wires from each transformer to Black AC cord wire
- White wires from each transformer to White AC cord wire
- Green/Yellow wire to the electrical ground

After all components are installed, plug the transformer into an unswitched 120 VAC outlet.

16. Program the Keypad

Note: Address 1 is reserved by the system for programming keypads.

1. On the keypad, hold down the back arrow and **CMD** keys for two seconds to display **SET BRIGHTNESS**.
2. Enter **3577** (INST) and press **CMD**.
3. Press the left Select key under **KPD OPT** (Keypad Options).
4. Press the **CMD** key to display **KEYPAD ADDRESS**. Set the keypad address.
5. Press the **CMD** key twice until **DEFAULT KPD MSG** displays.
6. Press any top row Select key. Enter the area name and panel account number as the default keypad display.
7. At **ARM PANIC KEYS**, press the Select key under **PN** (Panic) to enable the panic option. An asterisk displays next to enabled panic key options.
8. Press **CMD** until **STOP** displays. Press the right Select key under **STOP** to exit keypad programming.

17. Initialize the Panel and Configure Communication

After completing each of the following steps, press **CMD** to advance to the next option. Program these settings according to the information recorded in Generic Bank Branch System Information.

1. Reset the panel by placing a jumper over both RESET jumper pins. After a few seconds, remove the jumper and place it on one pin for use later.
2. Enter **6653** (PROG) at the panel keypad and go to **INITIALIZATION**.
3. At **INIT ALL?** select **YES**. At **SURE?** select **YES** to initialize the panel.
4. Enter **6653** (PROG), go to **COMMUNICATION**, then press any select key.
5. At the **ACCOUNT NO** prompt, press any select key and enter the 4-digit account number.
6. Go to **NETWORK OPTIONS** and press any select key.
7. At **DHCP**, select **NO**.
8. At **LOCAL IP ADDRESS**, enter the Control Panel IP address.
9. At **GATEWAY ADDRESS**, enter the Gateway address.
10. At **SUBNET MASK**, enter the Subnet Mask address.
11. Go to **REMOTE OPTIONS** and press any select key.
12. At **NETWORK PROG PORT** enter the remote programming port.
13. Press **CMD** until **STOP** is displayed. Press any select key. This will save the changes and will exit panel programming.

The panel is now ready for the remote connection to receive programming.

18. Download Programming

Call the central station to confirm that network communication is established with the panel. Provide the cellular SIM and any pertinent zone information.

19. Finalize the Installation

Refer to customer instructions for testing the system, finalizing the installation, and receiving document sign offs.

Test Communication Status

1. On the keypad, enter the Diagnostics Menu (**DIAG**).
2. Press **CMD** until **COMM STATUS** displays, then press any Select Key.
3. At **PATH**, enter the path number.
4. Repeat the steps for each of the communication paths.

Perform a Walk Test

Perform the Walk Test to test protection devices connected to zones assigned to areas. After power-up, reset the panel. Enter the Walk Test code **8144** (WALK) and press **CMD**. Refer to the Appendix in the included XR550 Series Programming Guide (LT-1232) for testing details.

20. Wiring Details and Diagrams

The following section includes kit wiring diagrams.

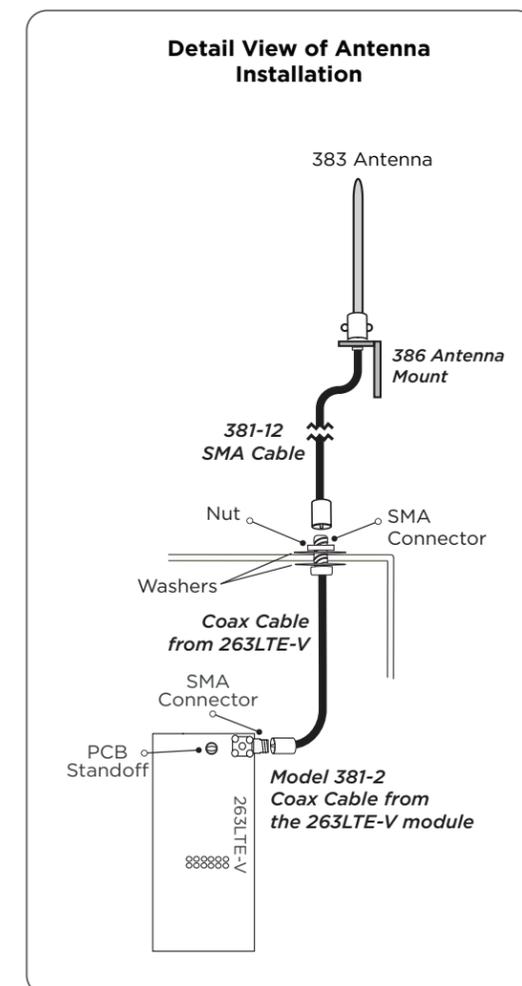


Figure 1: 263LTE-V Installation

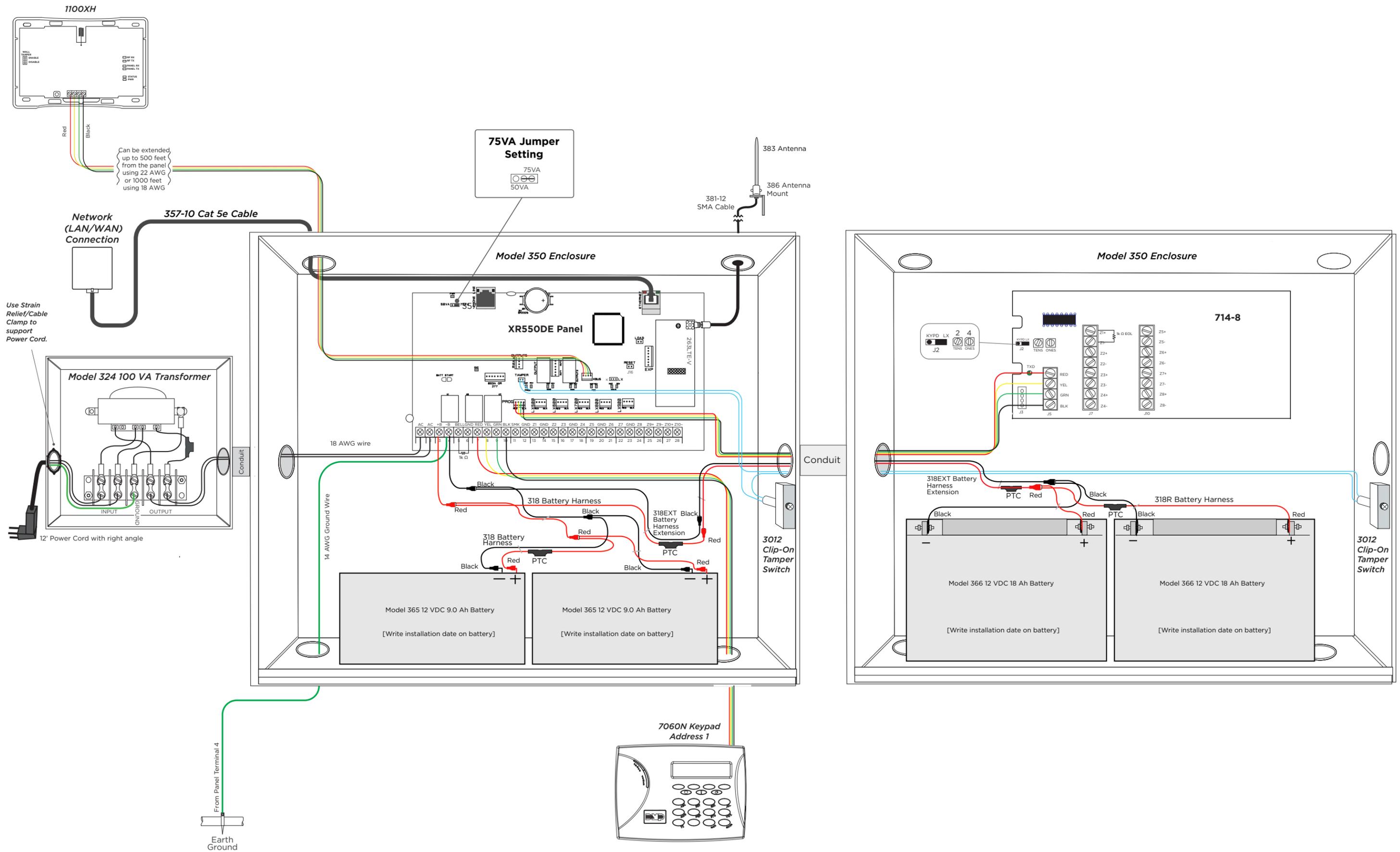


Figure 2: Wiring Diagram