



881 Expansion Interface Card

For Use with DMP 1912XR Command Processor Panels

Description

The 881 Expansion Interface Card allows you to connect additional 714 and 715 Loop Expander Modules to the 1912XR Command Processor panel. Loop expanders connect in parallel to a 4-wire bus consisting of two data wires, auxiliary power, and a panel common wire. See Figure 1.

Installing the 881 module

The 881 card plugs onto the J9 connector of the 1912XR panel and uses an adhesive backed plastic standoff mounted in the center to hold securely in place.

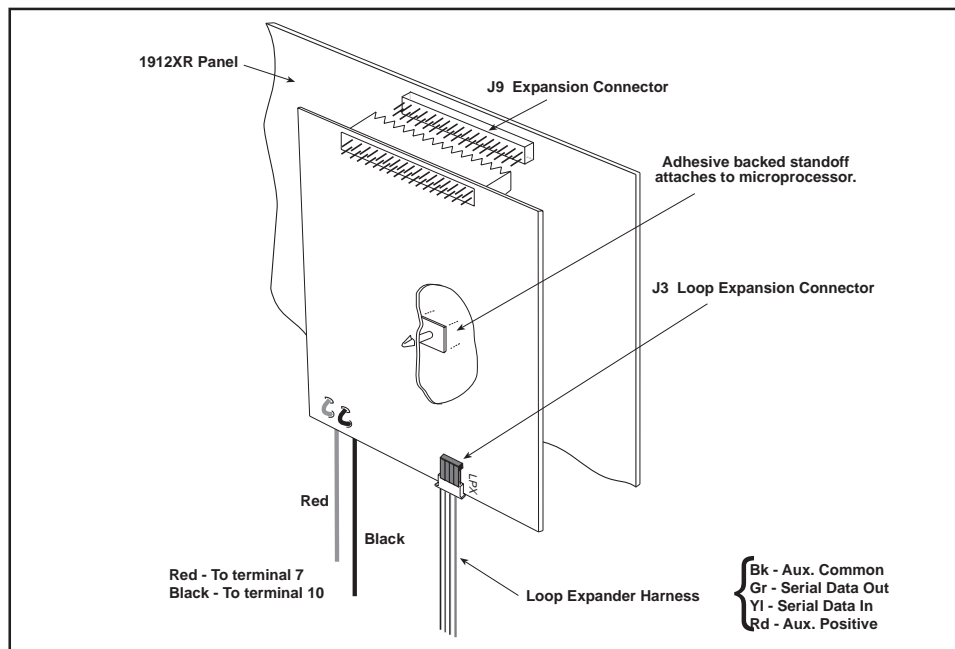


Figure 1: Installing the 881 on the 1912XR panel

Follow the instructions below when installing the 881 card:

1. Remove AC and battery power from the 1912XR panel before installing the 881.
2. Remove the paper strip from the base of the plastic standoff.
3. Hold the 881 card on the upper left and right corners using the thumb and index finger of each hand and carefully align the 40 pin connector of the 881 with the J9 connector on the 1912XR panel.
4. Gently press the 881 into the J9 connector while applying even pressure on both sides.
5. Connect the loop expander bus to the J3 Loop Expansion Connector.
6. Connect the Black wire from the 881 card to terminal 10 on the 1912XR panel.
7. Connect the Red wire from the 881 card to terminal 7 on the 1912XR panel.
8. Power for devices connected to the 881 card is provided by the panel's auxiliary power terminals 7 and 10. You can also add a regulated auxiliary power supply. When using a separate power supply, connect a wire from the negative terminal of the power supply to terminal 10 of the 1912XR panel.
9. Restore AC and battery power to the 1912XR.

Installing Multiple Expansion Devices

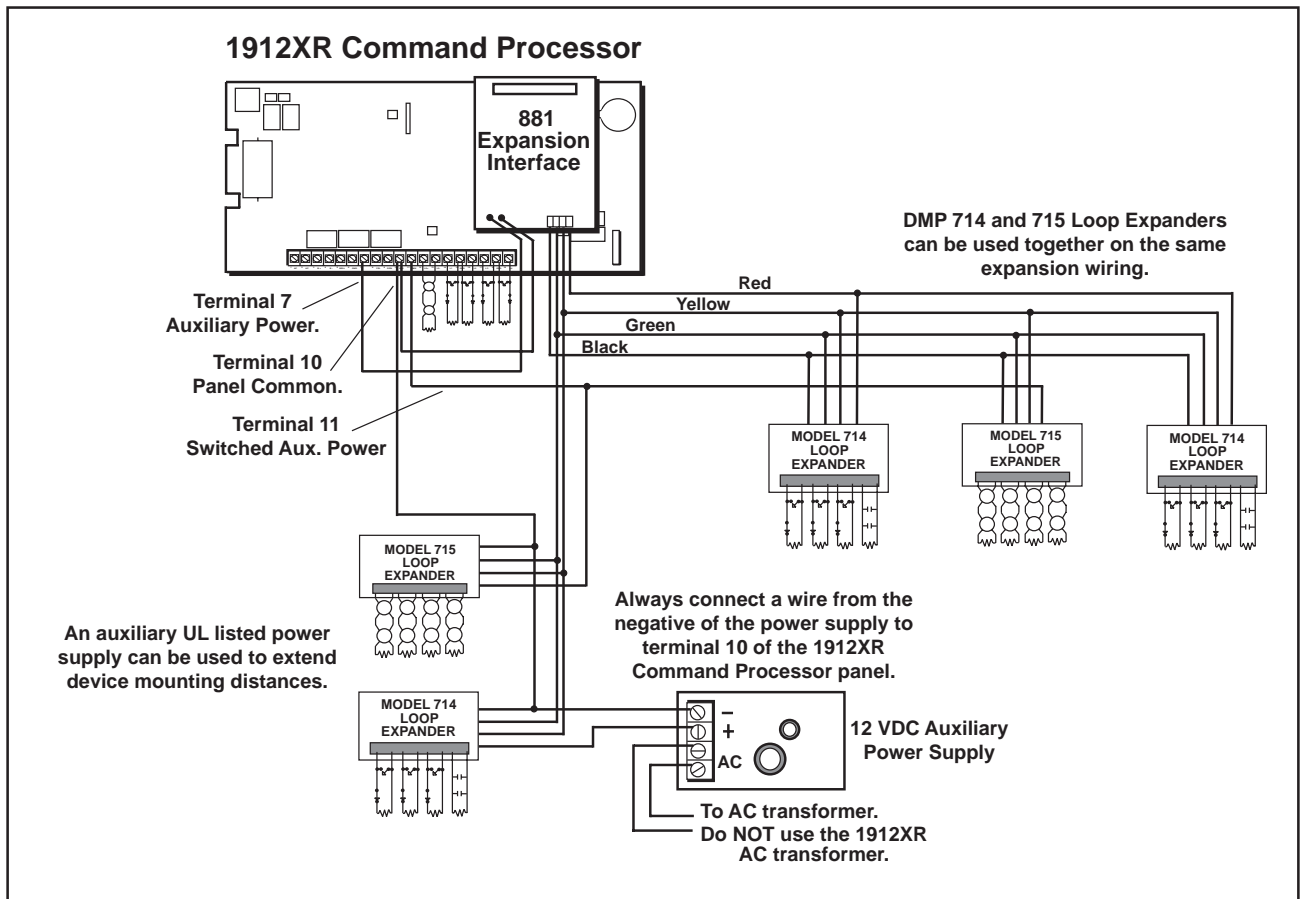


Figure 2: Device and power supply connection to the 881 card.

Wiring Distances for Multiple Expansion Devices

| # of expansion devices on 881 | Distance when powered from panel | | Distance when powered from auxiliary power supply * | |
|-------------------------------|----------------------------------|--------|---|--------|
| | 22 AWG | 18 AWG | 22 AWG | 18 AWG |
| 1 | 3940' | 9875' | 7500' | 9375' |
| 2 | 2735' | 6855' | 7500' | 9375' |
| 3 | 1925' | 4830' | 7500' | 9375' |
| 4 | 1420' | 3565' | 7500' | 9375' |
| 5 | 1140' | 2855' | 7500' | 9375' |
| 6 | 900' | 2250' | 7500' | 9375' |
| 8 | 700' | 1755' | 7500' | 9375' |
| 10 | 550' | 1370' | 7500' | 9375' |
| 15 | 370' | 930' | 7500' | 9375' |
| 20 | 265' | 660' | 7500' | 9375' |
| 25 | 200' | 495' | 7500' | 9375' |

Figure 3: Expansion device wiring distances.

* Locate auxiliary power supplies at the far end of the wire run.