1100D-WINT Wireless Receiver

Description

The 1100D-WINT Wireless Receiver provides up to 32 wireless zones for XT30INT Series panels. It also provides two-way, supervised communication using 868 MHz frequency hopping-spread-spectrum technology.

Compatibility

- XT30INT Series panel

What is Included

- One 1100D-WINT Wireless Receiver
- One 4-wire harness
- Hardware pack

Installing the Wireless Receiver

Selecting a Location

Choose an optimum location to mount the wireless receiver. The wireless receiver is typically mounted at a distance not to exceed 500 feet (152 meters) away from the panel enclosure. A location should be selected that will be centrally located between the 1100INT Series transmitters used in the installation. Install the wireless receiver away from large metal objects. Mounting it on or near metal surfaces impairs performance. Do not use shielded wire between the panel and wireless receiver. When selecting the proper mounting location of a transmitter, refer to the LED Survey Operation section of the specific installation guide for the transmitter being installed.

Mounting the Wireless receiver

1. Remove the cover from the plastic housing by squeezing both sides toward each other.
2. Secure the wireless receiver to the wall in the desired location. Ensure the two antennas are pointing up. Use the supplied shoulder washers and screws in the mounting hole locations. See Figure 1.
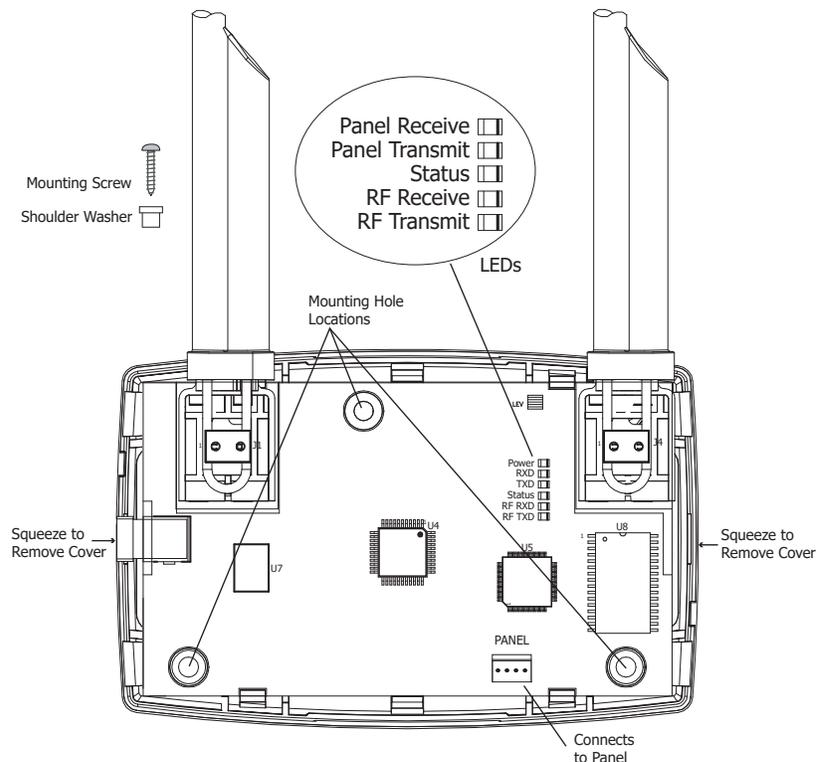

Figure 1: Receiver PCB

Keypad Bus Wiring

The wireless receiver easily interfaces with XT30INT Series panels using the keypad bus.

Harness Connection to XT30INT Series Panels

Use the XT30INT International Control Panel Programming Guide (LT-0981INT), Figure 2, and the following steps to connect the panel and wireless receiver.

1. Use the supplied 4-wire harness to connect from the wireless receiver's PANEL header to the panel keypad bus terminals 7, 8, 9, and 10. Observe wire colors when connecting to the terminals.
2. In System Options, program the House Code (1-50).
3. Snap the cover back on the unit. The panel immediately recognizes the wireless receiver if the panel is programmed with a house code.
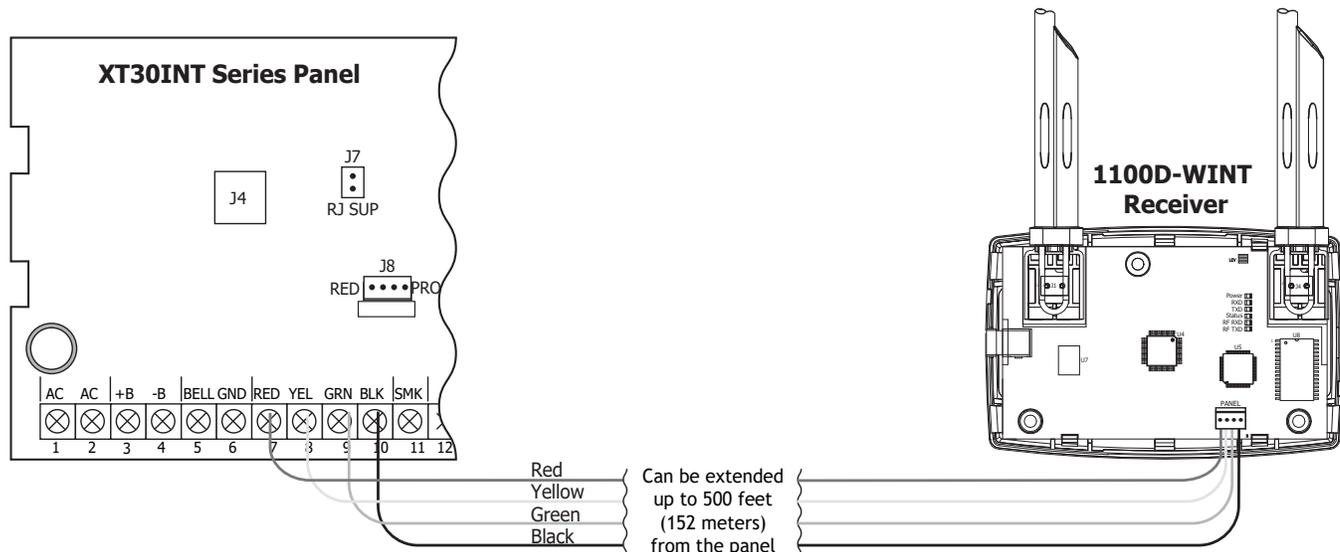

Figure 2: XT30 Series Keypad Bus Wiring

Wireless Receiver Operation

The wireless receiver automatically sends the panel house code to wireless transmitters when the unique transmitter serial number is programmed into the panel. The house code identifies the panel, wireless receiver, and transmitters to each other. The wireless receiver only listens for transmissions using the specified house code and/or programmed transmitter serial number.

Note: When setting up a wireless system, it is recommended to program zones and connect the wireless receiver before installing batteries in the transmitters.

Transmitters can be programmed for supervised or unsupervised operation. When programmed as supervised, the transmitter must communicate with the wireless receiver within the programmed number of minutes. If the transmitter fails to communicate, the panel displays a missing condition.

When a wireless receiver is installed, powered up, or the panel is reset, the supervision time for transmitters is reset. If the wireless receiver has been powered down for more than one hour, wireless transmitters may take up to an additional hour to send a supervision message unless tripped, tampered, or powered up. This operation extends battery life for transmitters. A missing message may display on the keypad until the transmitter sends a supervision message.

When any wireless zone programming is changed in the panel, wireless receiver zone programming is updated when exiting panel programming. During the update, all wireless zones display as normal for approximately one minute, regardless of the actual state of the wireless device(s).

LED Operation

Six LEDs display wireless receiver operation and activity. Refer to the table below as required.

PCB LEDs	Label	Operation
Power	POWER	Steady green to indicate there is power to the wireless receiver.
RXD	RXD	Flashes yellow to indicate data is being received from the panel.
TXD	TXD	Flashes green to indicate data is being sent to the panel.
Status	STATUS	Steady red to indicate memory upload. Off when upload is complete.
RF RXD	RF RXD	Flashes yellow to indicate data is being received from a transmitter.
RF TXD	RF TXD	Flashes green to indicate data is being sent to a transmitter.

Zone Configuration

Refer to the panel XT Series International Programming Guide (LT-0981INT) for complete wireless programming information.

When any wireless input zone for a particular address is programmed, the 1100D-WINT responds to the panel for this address. Other devices, such as keypads or hardwired zone expanders, cannot use this address. Zones connected directly to the panel cannot be wireless.

Keypad Address	Zone Numbers
	XT30INT
1	11-14
2	21-24
3	31-34
4	41-44
5	51-54
6	61-64
7	71-74
8	81-84

Transmitter Survey LED Operation

DMP 1100INT Series International transmitters provide a survey capability that allows one person to confirm that each transmitter is communicating with the wireless receiver or panel. This allows you to easily determine the best location for the transmitters and the wireless receiver when you are developing a site map of the system.

Check Location Using the Survey LED

1. Remove the transmitter's cover.
2. Hold the transmitter in the exact desired location.
3. Press the tamper switch to send data to the wireless receiver and determine if communication is confirmed or faulty.

    Confirmed
    If communication is confirmed, the survey LED turns on when data is sent to the wireless receiver and off when acknowledgement is received.

    Faulty
    If communication is faulty, the LED remains on for several seconds or flashes multiple times in quick succession. Relocate the transmitter or the wireless receiver until the LED confirms clear communication. Proper communication between the transmitter and wireless receiver is verified when for each press or release of the tamper switch, the transmitter's LED blinks immediately on and immediately off.

International Certifications

EN 50130-4:2011+A1:2014	Alarm systems. Electromagnetic compatibility. Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems.
EN 61000-6-3:2007	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments.

Specifications

Operating Voltage	8.0 to 14.0VDC
Current Draw	40mA
RF Power Rating	27mW
Frequency Range	863-869 MHz
Dimensions	
Receiver Housing	4.65" L x 3.1" W x 1.4" H 11.8 L x 7.9 W x 3.6 H cm
Antennas	8.6" H / 21.8 H cm
Color	White
Housing Material	Flame retardant ABS

Patents

U.S. Patent No. 7,239,236

Panel Compatibility

XT30INT Series panel

866-266-2826

DMP.com

Designed, Engineered and Assembled in U.S.A.

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