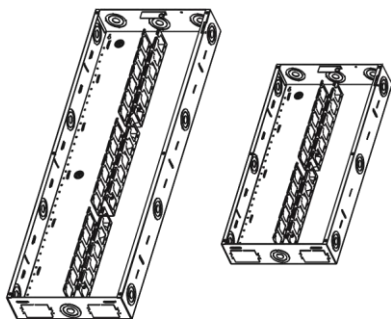


## Introduction



The **KT-CAB3000LDR** and **KT-CAB4000LDR** cabinets are part of the Kantech Multi-Door Controller Kits specifically designed to house and to protect the KT-300, KT-400 and KT-NCC controllers, input modules, output modules and batteries. Large knockouts are provided at the top, sides and bottom of the cabinets for flexible cable routing. There are also two single gang electrical knockouts at the bottom of the cabinets. The **KT-CAB3000LDR** and **KT-CAB4000LDR** cabinets must be surface mounted. These cabinets are UL listed as alternate enclosures.

## Contents of Package

- Cabinet
- Raceway cover(s)
- Door
- Hardware pack(s)
- Install Sheet

### Cabinet

### Dimensions

**KT-CAB3000LDR**

Height 72.4 cm (28.5 in)

Width 36.2 cm (14.25 in)

**KT-CAB4000LDR**

Height 106.7 cm (42 in)

Width 36.2 cm (14.25 in)

## Installation Instructions

### Location

1. Choose a location where the temperature will not drop below 0°C (32° F) or go above 50°C (122° F) and where the humidity will not create condensate on the cabinet or on the installed modules. Locating the cabinet in a garage, attic or damp basement is not recommended.
2. Install the cabinet in an easily accessed location for service and future upgrades, and within 61 cm (2 ft) of a 120 VAC outlet. Alternatively, the outlet may be located in the bottom of the cabinet using the provided knockout(s).
3. For limitations regarding cabinet locations, please consult local electrical and building codes.

## Surface-Mount Installation

1. Install a 1.9 cm (0.75 in) plywood backboard to the wall studs using three #10 x 6.35 cm (2.5 in) wood screws (not supplied) per side. Allow sufficient clearance for the cabinet and access to the knockouts.
2. Position the cabinet at a suitable height and mark the location of the upper mounting holes.
3. Set the cabinet down and drill pilot holes for the upper mounting screws.
4. Install the upper mounting screws (#6 x 1.9 cm (0.75 in) pan head wood screws, not supplied) but do not fully tighten.
5. Hang the cabinet on the upper mounting screws, mark the knockout holes and the center and bottom mounting screw locations.
6. Remove the cabinet and cut the cable access holes in the plywood, removing any rough edges.
7. Install cable protection grommets (not supplied) in the holes in the back of the cabinet.
8. Hang the cabinet on the upper mounting screws, install the center and bottom mounting screws (#6 x 1.9 cm (0.75 in) pan head wood screws, not supplied) and tighten the upper mounting screws.
9. Remove other knockouts as required and install cable protection grommets (not supplied) in the holes.

## Wiring Instructions

All cables are low voltage or communications cables. Observe good wiring practices and install according to appropriate wiring codes. Maintain proper separation of these cables from 120/230 VAC power cables and use proper cable management and labeling techniques.

Route all cables into the cabinet through the raceway. Allow sufficient length at both ends of the run to avoid stress and for proper termination and trim-out. Label each cable at both ends for easier identification.

Position and secure all cables, complying with applicable codes. Use good wiring practices to avoid damage during construction.

Refer to the *KT-300 Installation Manual DN1315*, *KT-400 Installation Manual DN1726* or *KT-NCC Installation Manual DN1611* for specific wiring and termination practices for each application.

## Removable Raceway

The center wiring raceway(s) can be oriented to allow access to the rear holes for cabling. Remove the two screws holding the raceway and rotate it 180° and refasten the two screws.

The raceway(s) can also be completely removed to allow larger devices to be mounted in the open area by using the built-in lances. To remove the raceway, simply unfasten the two screws and remove the raceway.

## Important

All requirements for installation of CAT5/CAT5e and coaxial cable should be met for proper operation of connected equipment. Do not strip off cable sheathing more than required for proper termination. Do not kink or knot cable. Do not crush cable with cable ties. Do not splice cable. Do not bend cable at right angles or make any other sharp bends. All cable bends should have a minimum of a 5 cm (2 in) radius. Do not untwist CAT5/CAT5e pairs more than 1.27 cm (0.5 in).

**Note:** Refer to security system installation instructions for wiring and labeling requirements for these systems.

## AC Outlets

Provisions for two single gang electrical boxes have been made in the bottom of the cabinet. These may be used to provide 120 VAC outlets to connect power supplies for amplifiers, hubs, security systems, etc.

Alternatively, multiple outlets may be located outside of the cabinet, but within 61 cm (2 ft) of the cabinet to allow for short power supply cords.

**Note:** The electrical boxes must be dropped in from the inside of the cabinet after the knockout has been removed.

## Grounding

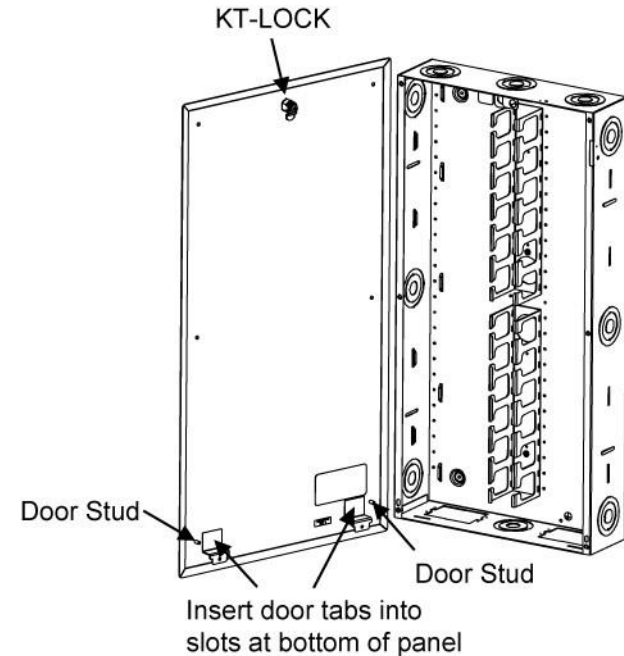
Provision for a grounding strap is an integral part of the cabinet. The hole for a grounding screw is located in the bottom of the cabinet.

## Tamper Switch Installation

Provision for a tamper switch is an integral part of the cabinet. The bracket for a tamper switch is located at the top of the cabinet. Install the tamper switch according to the *KT-300 Installation Manual DN1315*, *KT-400 Installation Manual DN1726* or *KTNCC Installation Manual DN1611*



## Door Installation



## Locking Door Installation

1. Install the KT-LOCK into the opening provided at the top of the door (if locks used).
2. Slide the door tabs at the bottom of the door into the slots in the bottom of the cabinet with the door at a suitable angle to cabinet surface.
3. Push the top of the door towards the cabinet until door studs at bottom engage cabinet holes and the door is fully closed.
4. Insert the key into the lock and turn to lock the cabinet, if locks used. Otherwise, attach with screws.

**Note:** Maximum screw torque 25 lb in (2.8 Nm).

## UL 294 Performance Levels

Model	Destructive Attack	Line Security	Endurance	Standby Power
KT-CAB3000LDR	I	N/A	N/A	N/A
KT-CAB4000LDR	I	N/A	N/A	N/A