LamasaTech

Zentron 21 Installation Manual



Contents

Package Contents 03

Tools Required 05

Optional Pos and intercom 10

Instructions 12

Concrete Base specification and cabling requirements 17

Troubleshooting 23

Package Contents

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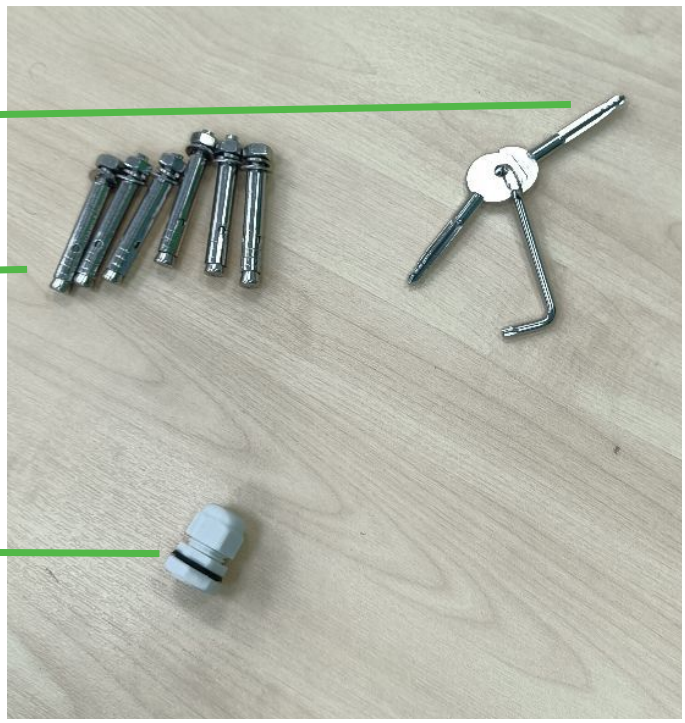
Zentron 21 with enclosure



Keys and Allen key

6 x M8 x 70 Expansion Bolt

Conduit Plug



Tools Required

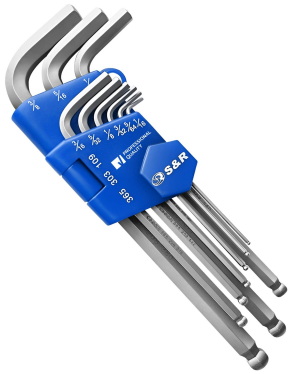
Tools

The tools required will vary depending on the customer, the positioning of the kiosk and the ground it is being installed on. This will be determined by the completion of a successful site survey, but the tools used for the general opening and closing of the kiosks are as follows:

Phillips head screwdriver



Set of allen keys



Drill with socket set



Socket set



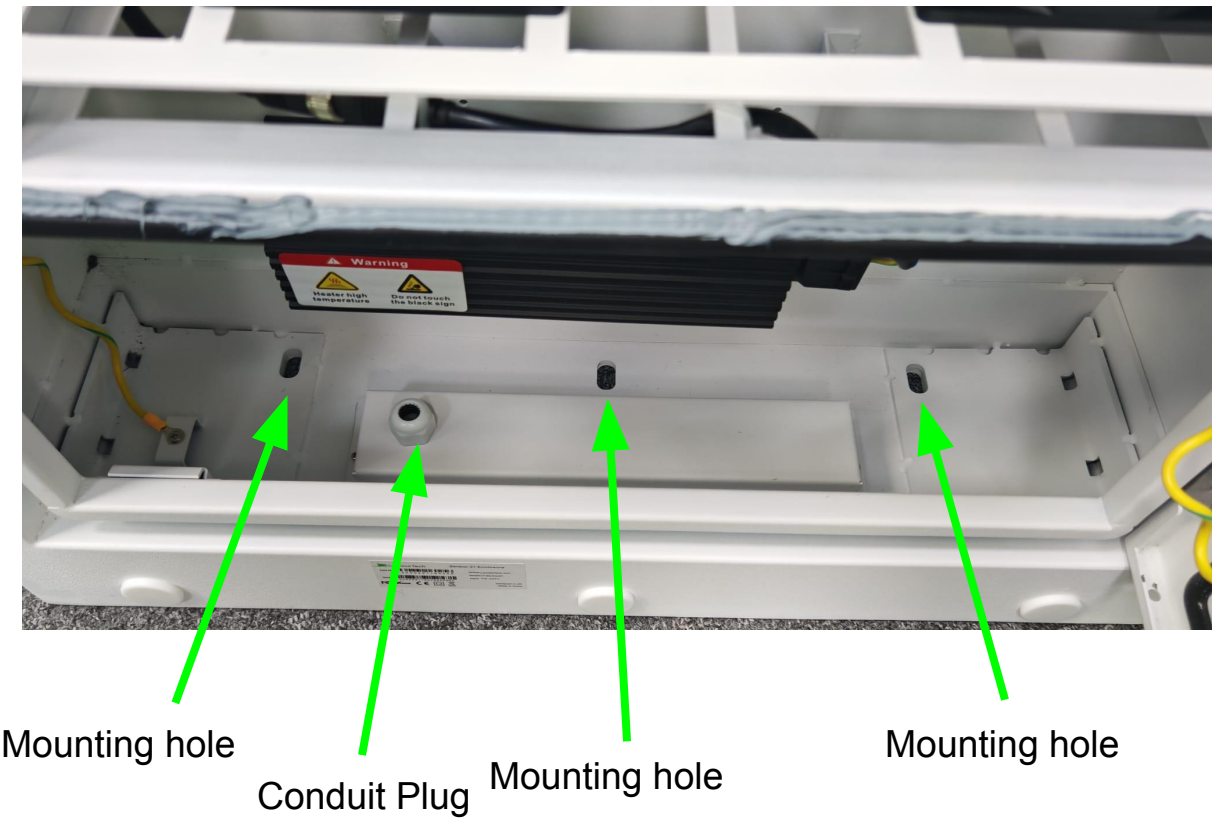
Instructions

Instructions

First, using the key, open the back of the Enclosure. At the bottom you will find the mounting holes to bolt the enclosure into the ground.

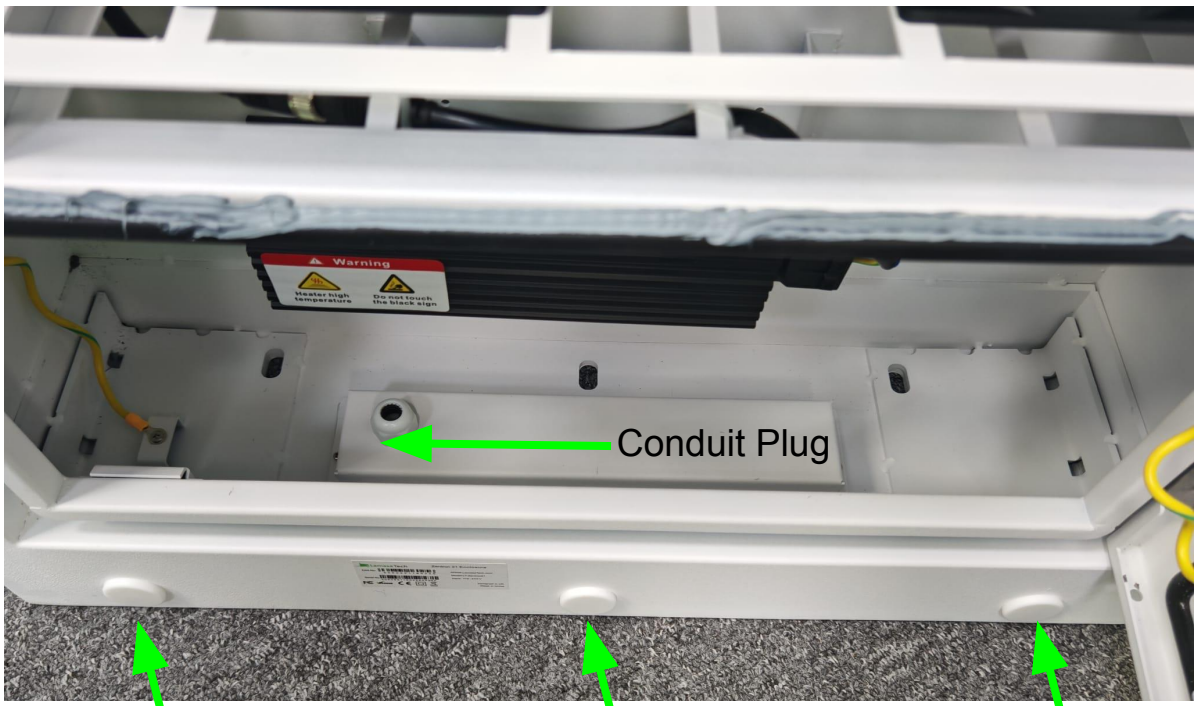


There will be 6 mounting holes to bolt the kiosk to the ground. If you want to fire the power supply and data cables to through the bottom, wire them before bolting the Kiosk. Use your drill to bolt down the kiosk using the 6 M8 x 70 Expansion Bolt through the mounting holes into the concrete



Instructions

Once secured to the ground, run the required cabling through the provided conduit holes using the conduit plugs provided.



0.75inch (19.05mm) 1.25inch (31.75mm) 0.75inch (19.05mm)

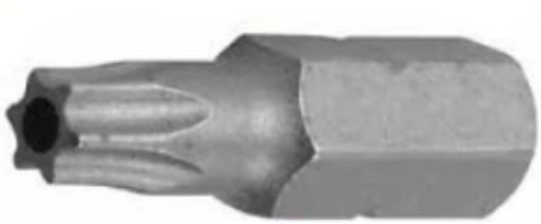
You can use the extra conduit plug on the side by removing one of the caps and inserting it if you want to run your cables through a different side.

Optional POS and Intercom

Tools Required

6 Lobe Pin tool or Screwdriver or bit that are compatible with Torx Pin Tamper Proof Screws size M3





Instructions

POS Contents

The POS plate you have ordered you will have two parts. The front plate and the back plate as follows:



Exterior Plate

Interior Plate

Design Features

- **Two-Part Construction:**
  The system includes:
  - **Interior Plate:** Installed inside the kiosk to provide a solid base.
  - **Exterior Plate:** Mounted externally for a finished look and additional protection.
- **Precision Fit:**
  Both plates feature pre-drilled holes for secure fastening and a seamless fit.
- **High-Quality Material:**
  Made from durable black metal with a modern aesthetic.
- **Tamper-Resistant Screws:**
  Designed to work with tamper-proof Torx pin screws (size M3) for added security.

POS Plate

The Zentron 21 POS (Point of Sale) Plate is specifically engineered to cover the empty space left when POS device is removed from kiosk units. This solution ensures both a clean and professional appearance while maintaining the structural integrity and security of the kiosk.



1. **Preparation:**
    - Confirm that you have the following components:
        - One interior plate
        - One exterior plate
        - Mounting screws (Torx pin tamper-proof, size M3)
        - Required tools (see Tools Required section).
    - Ensure the mounting area on the kiosk is clean and free of debris.
2. **Interior Plate Installation:**
    - Place the interior plate on the inside of the kiosk opening.
    - Align the pre-drilled holes in the plate with the framing of the kiosk.
3. **Exterior Plate Installation:**
    - Position the exterior plate on the corresponding external side of the opening.
    - Confirm that the pre-drilled holes on the exterior plate are perfectly aligned with the interior plate.
4. **Securing the Plates:**
    - Insert the screws from the exterior plate through to the interior plate.
    - Using the 6 Lobe Pin Tool or compatible bits, tighten the screws sequentially for even pressure.
    - Verify that the plates are securely fastened and sit flush with their surfaces, leaving no visible gaps.

Intercom

The Zentron 21 intercom module is a communication device designed for installation in parking kiosks or access terminals. It enables drivers to communicate directly with parking attendants or security personnel for assistance, inquiries, or emergencies.





1. **Preparation:**
    - Confirm that you have the following components:
        - Intercom module
        - Mounting screws (Torx pin tamper-proof, size M3)
        - Required tools (see Tools Required section).
    - Ensure the mounting area on the kiosk is clean and free of debris.
2. **Intercom Installation:**
    - Identify the mounting location on the access terminal or parking kiosk. The module should be oriented with the button facing outwards and the speaker holes clear for audio.
    - Insert the body of the intercom module through the designated hole while carefully feeding the module’s cable through the designated opening in the kiosk or terminal, ensuring the cable is not pinched or excessively twisted.
    - Set the module flush against the kiosk frame, ensuring that the intercom front faceplate faces the same direction as the kiosk's front.
    - Align the screw holes on the module bracket with the corresponding holes on the kiosk frame.
    - Insert and tighten the screws evenly using the 6 Lobe Pin Tool or compatible screwdriver. Avoid over-tightening.

Intercom Wiring Guide

Microphone (MIC) Connections:

- Red: MIC+
- Black: MIC-

Speaker (SP) Connections:

- Black: SP White+
- White: SP White-

Button & LED Connections:

- Brown: 12V-LED (Power to LED)
- Black: GND-LED (Ground for LED)
- Yellow: NC (Normally Closed, button contact)
- Blue: COM (Common, button contact)
- Gray: NO (Normally Open, button contact)

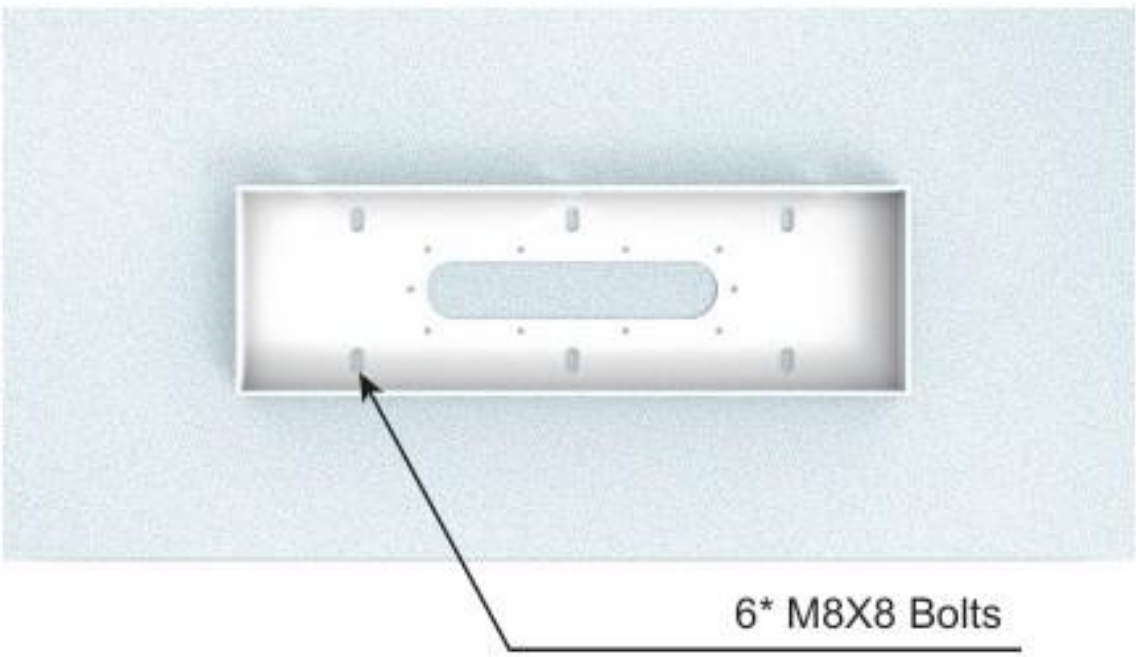
The part colours shown in the images are for visual reference only



Concrete Base Specifications and Cabling Requirements

Concrete Base and Cabling Requirements





Concrete Base and Cabling Requirements

Foundation and anchoring
The kiosk may be anchored either to:

- A purpose-built, steel-reinforced concrete base cast in situ, with electrical and data conduits installed before the concrete is poured; or
- A suitable existing solid concrete surface.

The installation surface must be a sound, qualified cast-in-place concrete floor. Do not install the kiosk directly onto thin mortar layers, hollow ground, sand, cracked or damaged concrete, soft ground, or any other unstable surface.

Concrete must comply with **BS 8110** requirements and meet at least **C20/25** strength grade. Minimum floor thicknesses are:

- Ordinary concrete floor: **100 mm minimum**
- Reinforced concrete floor: **80 mm minimum**

The foundation specifications are intended as a baseline for contractors. Since soil conditions and environmental factors vary by site, a site-specific ground and foundation assessment is recommended before construction.

Electrical and data rough-in
For installations using a dedicated concrete base, install electrical and data conduits before the concrete pour.

The conduit stub-up must be centred within the concrete base in accordance with the kiosk metal-base specification and technical drawings. This allows the incoming power and internet cables to be routed into the kiosk correctly.

Cables may enter the kiosk through:

- Cable entry points at the rear of the kiosk; or
- The cable entry point at the bottom of the kiosk.

Please refer to the technical drawings on page 22 for the exact cable-entry dimensions and locations. Where an existing concrete surface is used, plan the cable route and entry point before anchoring the kiosk.

Concrete Base and Cabling Requirements

Installation procedure

1. Position the kiosk at the intended installation location, aligning it with the base fixing-hole positions and the reserved central cable area.
2. Using a **10 mm drill bit**, drill the fixing holes for the anchor bolts.
3. Route the power and network cables into the kiosk's central internal cavity.
4. Secure the kiosk to the concrete base using **M8 × 8 expansion bolts**.
5. Connect the incoming power supply to the kiosk's internal circuit breaker.

Power requirements

The kiosk's normal power consumption is:

≤ 70 W

The fitted LED power supply is a **MEAN WELL XLG-150-24-A**, rated for:

- Input: **100–240 V AC, 50/60 Hz**
- Output: **24 V DC, up to 6.25 A**
- Maximum rated power: **150 W**

The 150 W rating is the capacity of the power supply; it does not mean the kiosk continuously consumes 150 W.

The kiosk is fitted with an internal circuit breaker. Terminate the incoming **three-core mains cable** as follows:

- **L** — Live
- **N** — Neutral
- **Earth** — Protective earth/ground

Cable sizing, circuit protection, earthing, isolation, and final electrical connection must be specified and completed by a qualified electrician in accordance with all applicable local electrical and safety regulations.

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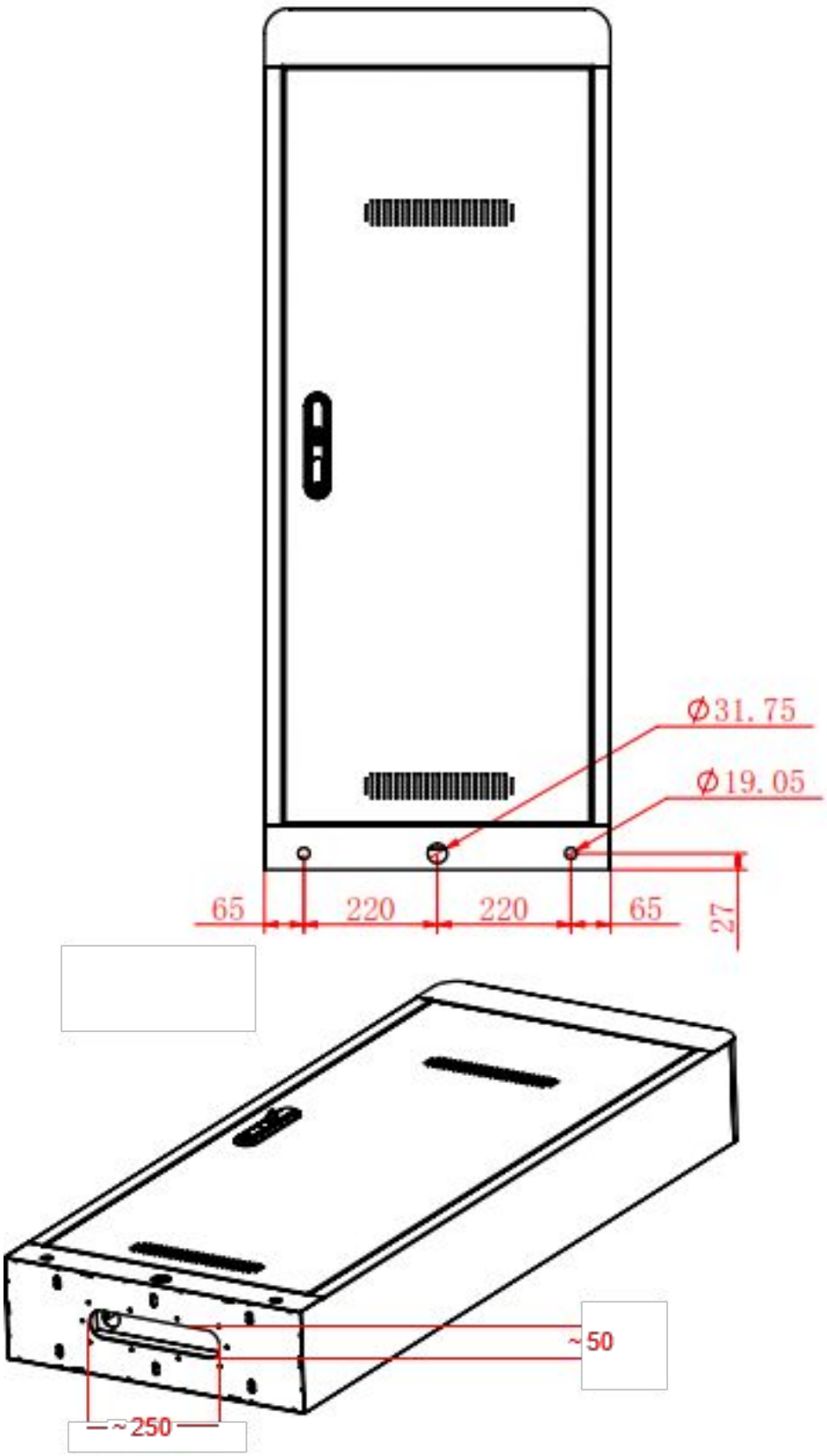
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Technical Drawing

All measurements specified are in mm.



Troubleshooting

Troubleshooting

Issue	Solution
Wi-Fi dropping in and out	1. Check antenna is securely connected 2. Check Wi-Fi signal strength- if the wireless signal is too weak look at hardwiring the device 3. Forget the wireless network and reconnect 4. Ensure the Wi-Fi network supports 2.4Ghz
Display doesn't boot or hangs on LamasaTech Logo	1. Android OS issue, generally a firmware upgrade required please contact the LamasaTech Customer Success Team.
No Display/black screen	1. Check if you have a backlight as this may be a content issue 2. Plug a mouse into the usb port on the top of the display and exit the application to see if you can get to the OS. 3. If you now get a display then this is down to content if you still have no display then please contact the LamasaTech Customer Success Team.
Dark/dull display	1. Plug a mouse into the screen and exit application 2. Check screen brightness settings and alter accordingly.
Display intermittently turning off	1. Please check all ventilation ducts to ensure none have been blocked reducing air flow.

Troubleshooting

Issue	Solution
Screen Flashing on and off	1. Please contact the LamasaTech Customer Success Team.
Content not loading from CMS application	1. Check time zone on display as this can prevent signage applications running correctly
Display doesn’t boot or hangs on LamasaTech Logo	1. Android OS issue, generally a firmware upgrade required please contact the LamasaTech Customer Success Team.

Contact technical support

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