DFI®
TPC150-SD Installation Guide
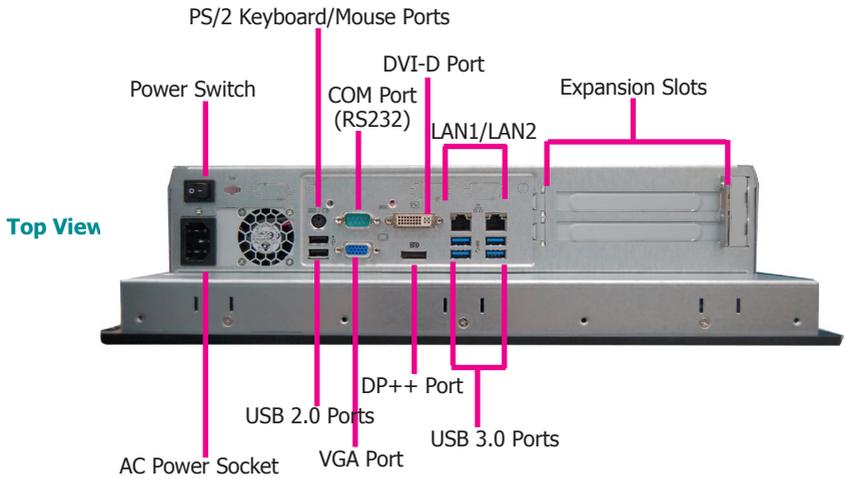

Package Contents

• One 15" Touch Panel PC
• One sheet of Poron foam
• 1 DVD disk includes:
- Manual

DFI reserves the right to change the specifications at any time prior to the product's release. For the latest revision and more details of the installation procedure, please refer to the user's manual on the website.

www.dfi.com

Top Panel

PS/2 Keyboard/Mouse Ports

DVI-D Port

Power Switch

COM Port (RS232)

Expansion Slots

LAN1/LAN2

Top View

DP++ Port

USB 2.0 Ports

USB 3.0 Ports

AC Power Socket

VGA Port

Removing the Chassis Cover

1. Make sure the system and all other peripheral devices connected to it have been powered-off.

2. Disconnect all power cords and cables.

3. The 6 mounting screws on the bottom of the system are used to secure the cover to the chassis. Remove these screws and put them in a safe place for later use.
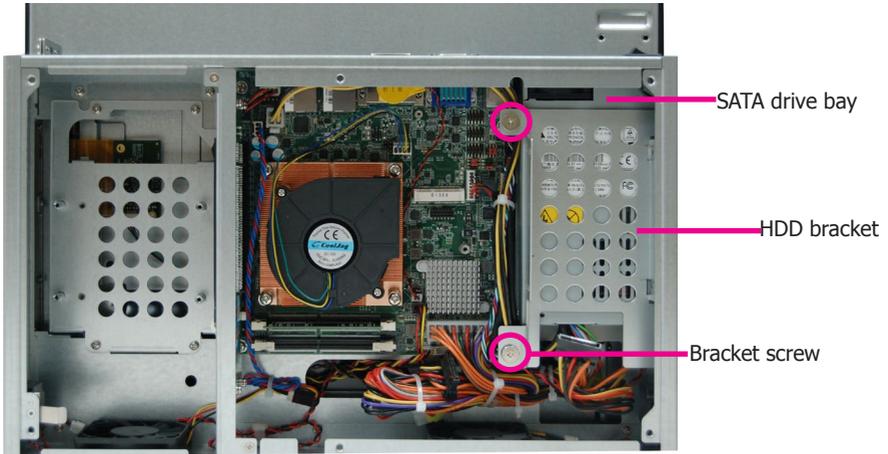

Mounting screw
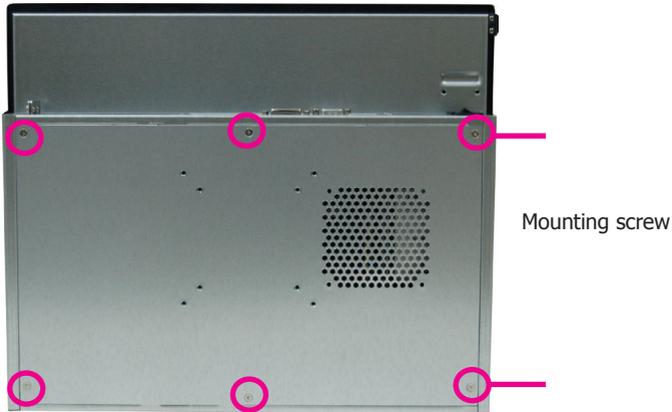
4. Lift the cover up to open the system.

5. The Mini PCIe and the SODIMM sockets are readily accessible after removing the chassis cover.

Mini PCIe socket

SODIMM socket
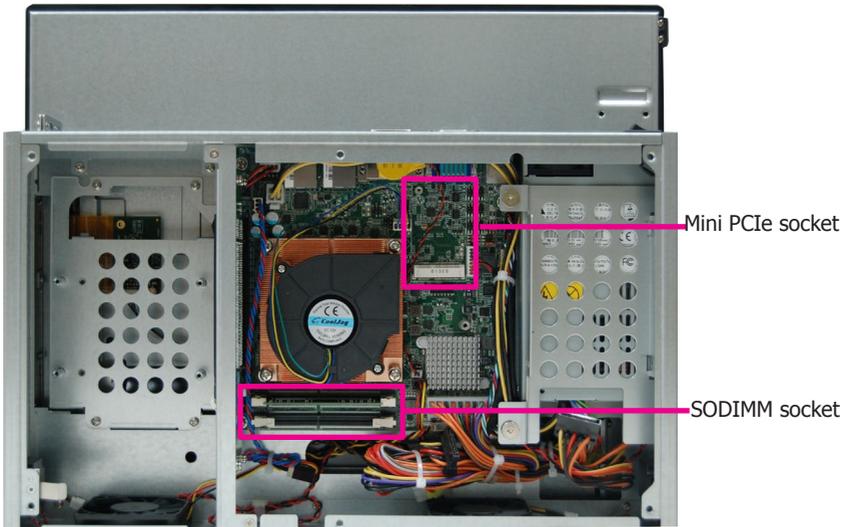
Installing a SATA Drive

The system can accomondate two SATA drives. Please use the following procedure to install SATA drives into the system.

1. Locate the SATA drive bay inside the system and remove the mounting screws that secure the HDD bracekt to the drive bay.
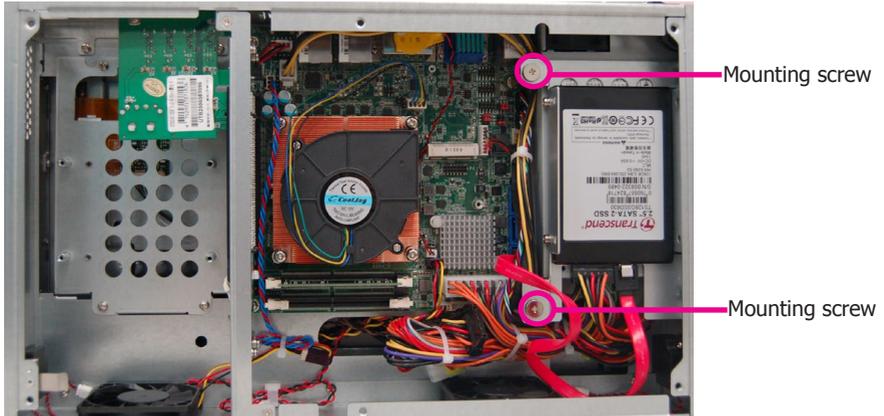

SATA drive bay

HDD bracket

Bracket screw

2. Align the mounting holes of the SATA drive with the mounting holes on the HDD bracket and then use the provided mounting screws to secure the drive in place.


Mounting screws

SATA drive

HDD bracket

Mounting screw

3. Place the SATA drive (with the HDD bracket) back into the system. Align the mounting holes on the HDD bracket with the mounting holes on the SATA drive bay and then use the provided mounting screws to secure the drive in place.


Mounting screw

Mounting screw

4. Connect one end to the SATA data connector of the SATA drive and the other end to the SATA data port on the system board. Connect the SATA power connector from the PSU to the SATA power connector.

SATA data connector
SATA power connector

SATA data port
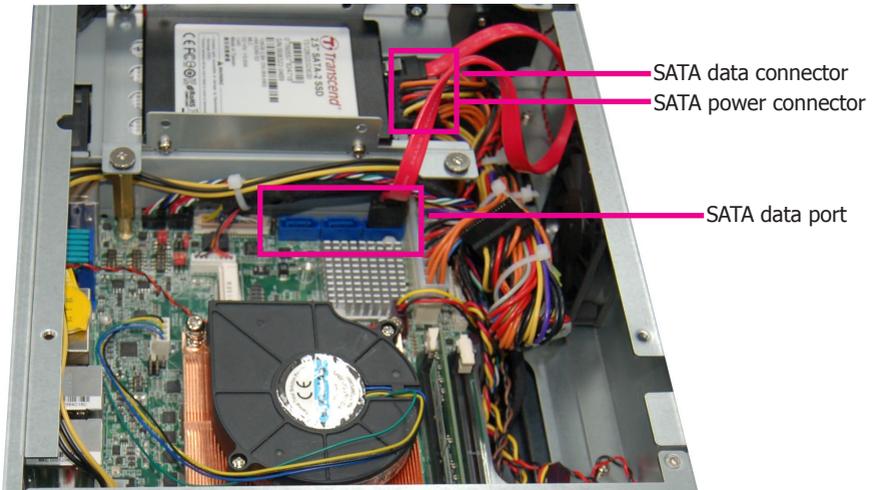
Installing a Mini PCIe Card

The system board is equipped with one Mini PCIe slot that supports mSATA and PCIe interfaces. Use the following procedure to install a Mini PCIe card:

Align the notch in the connector of the PCIe card with the key in the connector on the system board and use the provided mounting screws to secure the card on the system board.

Mini PCIe card

Mounting screw
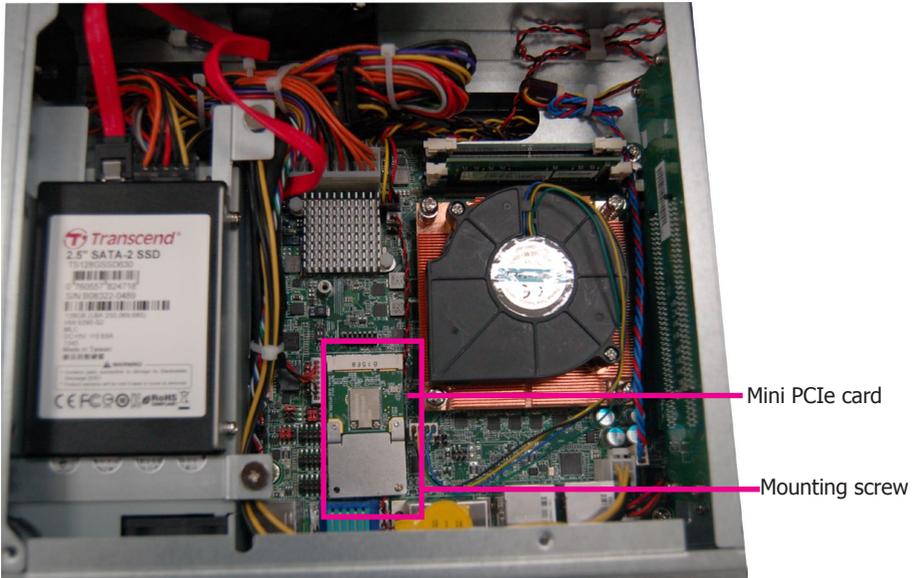
Note:

The Mini PCIe socket supports PCIe and SATA signals and can accommodate common mobile broadband and storage modules. For more information on switching the signal between SATA and PCIe, refer to "Board Layout and Jumper Settings."

Installing a PCIe Expansion Card

The PCIe slot on the riser card inside the system is used to install expansion cards. Use the following procedure to install a Mini PCIe card:

> **Note:** The system provides two optioanl riser cards to accommodate different types of PCIe expansion slots:
>
> The riser card *(DFI model: T100-2E)* provides 2 x PCIe Gen3 x8 expansion slots whereas the riser card *(DFI model: X100-2P1M)* provides two PCI and one Mini PCIe slots.

1. Remove the slot plate and bracket by removing the screws on the front chassis.

Slot plate

bracket and screws

2. Insert the expansion card into the PCIe slot on the riser card. Ensure the card is properly seated into the slot.

PCIe slot
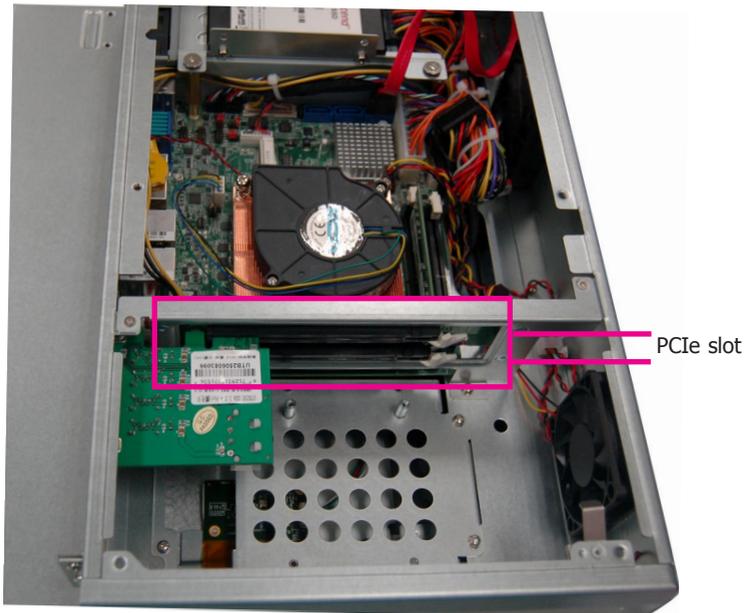
3. Install the bracket to secure the PCIe card in place.

Front View

Mounting Options

VESA mount

The VESA mount kit includes the following:
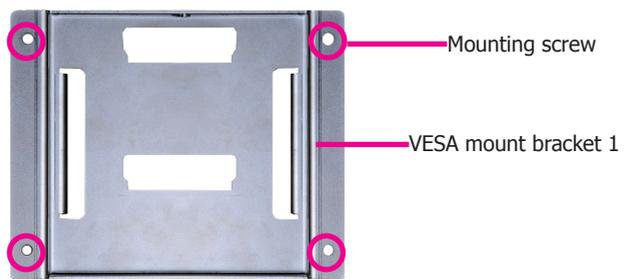- 2 VESA mount brackets
- Bracket screws
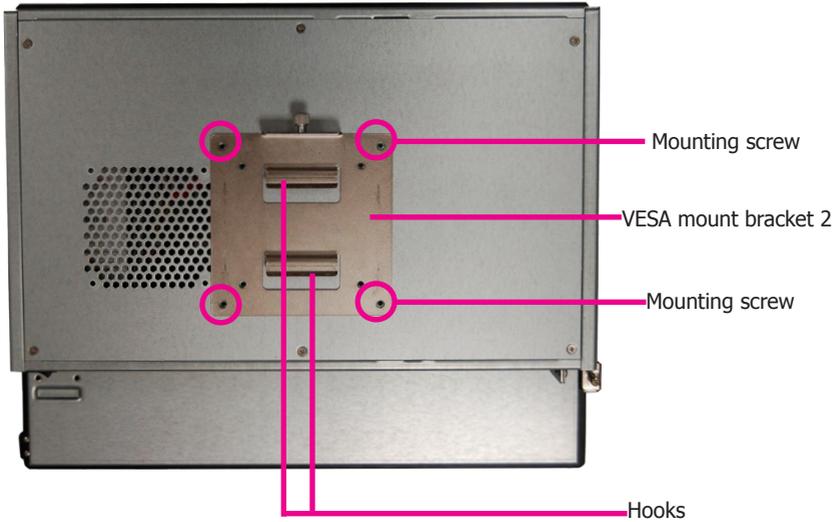

VESA mount bracket 1

VESA mount bracket 2

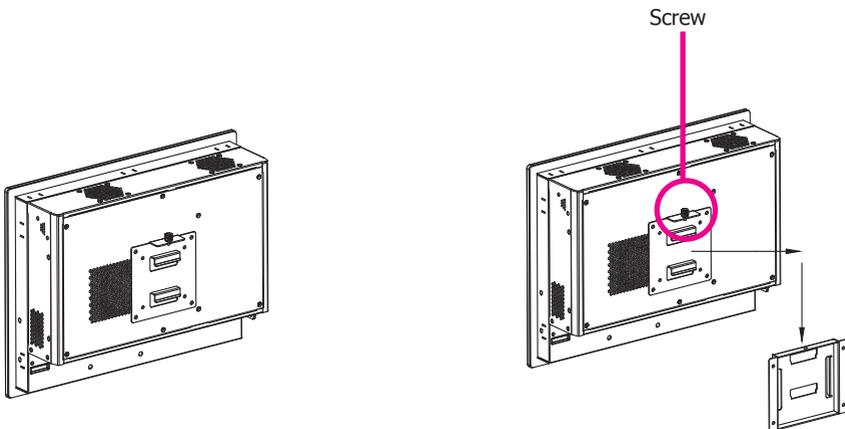1. Select a place on the wall where you will mount the Panel PC.

2. Use the provided mounting screws to attach "VESA mount bracket 1" to the wall.

Mounting screw

VESA mount bracket 1

3. Attach the other bracket (VESA mount bracket 2) to the rear of the Panel PC.

Mounting screw

VESA mount bracket 2

Mounting screw

Hooks

4. Slide the Panel PC to "VESA mount bracket 1" to attach the two brackets with the hooks. Then tighten the screw to secure the assembly in place.

Screw

◉ Panel mount

The panel mounting kit includes the following:
- 6 mounting clamps

1. Select a place on the panel (or wall) where you will mount the Panel PC.

2. Cut out a shape on the panel that corresponds to the Panel PC's rear dimensions: (383+2) mm x (310+2) mm (plus 2 to allow for tolerances) and ensure that the Panel PC can be fitted into the panel properly.

Mounting hole

Panel

312

385
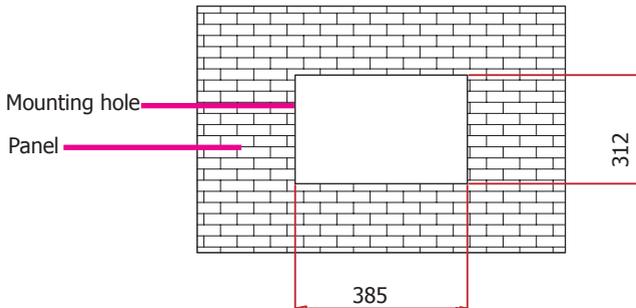
3. Insert the Panel PC from the outside surface of the panel into the mounting hole until it is properly fitted against the panel.

4. Position the mounting clamps along the rear edges of the Panel PC and insert them into the slits around the Panel PC.

White plastic cap

Mounting clamp

Slit for mounting the clamp
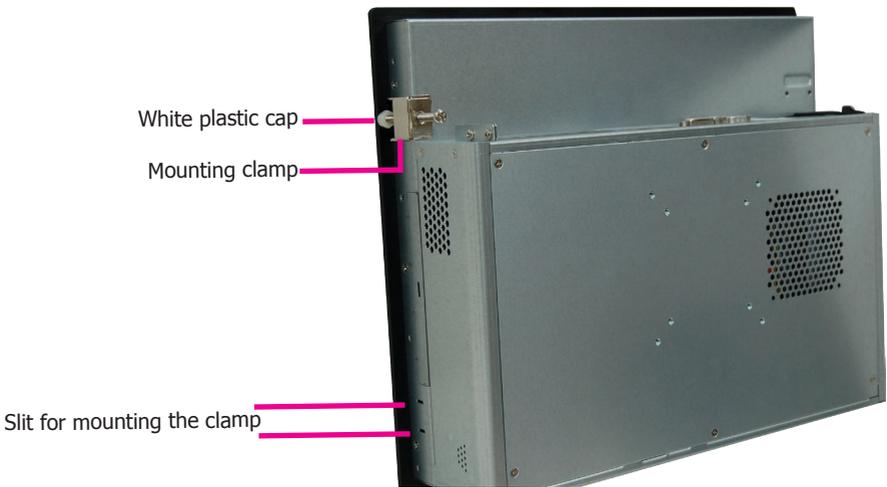
5. The first and second clamps must be positioned and secured diagonally prior to mounting the rest of the clamps. Tighten the clamp's screw using an electric screwdriver by pressing the white plastic cap onto the back of the panel. The illustration below shows that all clamps are properly mounted.
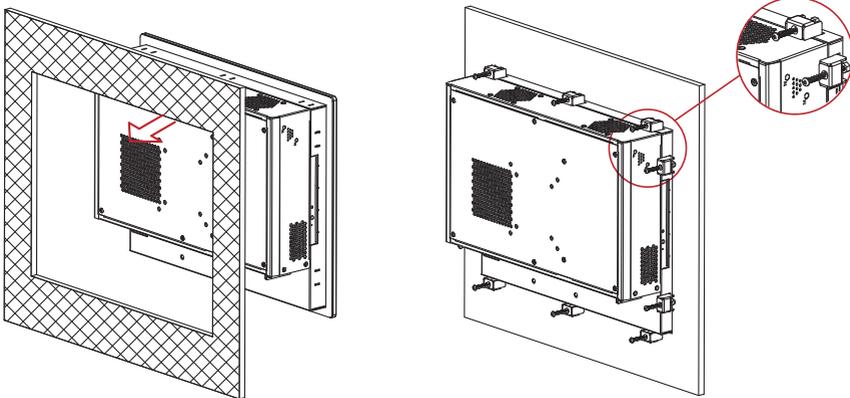
Note:

The maximum thickness of the panel's opening (or wall) should be 10 mm for the clamps to support the panel mount firmly.

Board Layout and Jumper Settings
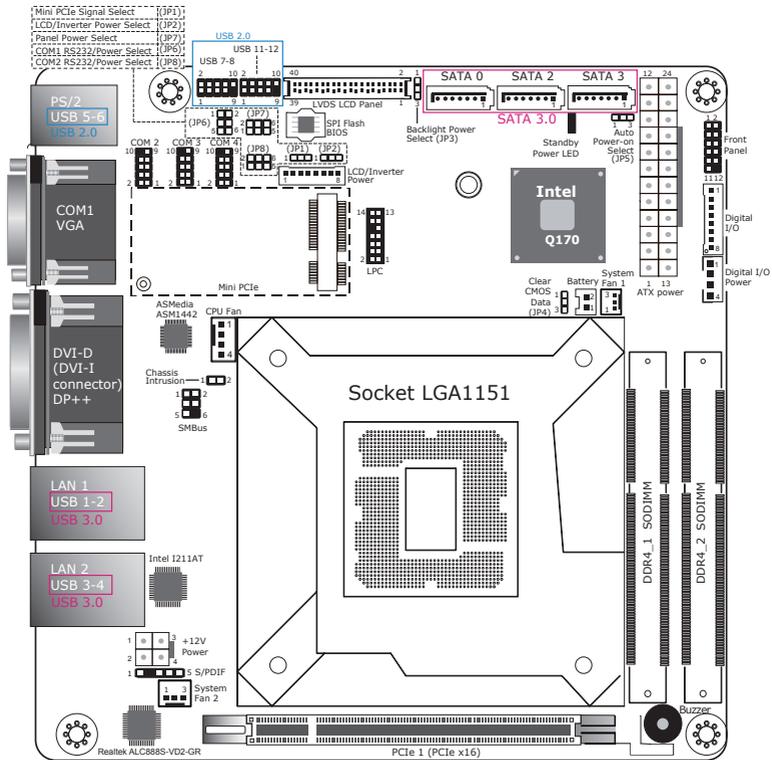
Backlight Power Select	JP3
+3.3V (default)	1-2 On
+5V	2-3 On

Clear CMOS Data	JP4
Normal (default)	1-2 On
Clear CMOS Data	2-3 On

LCD/Inverter Power Select	JP2
+12V (default)	1-2 On
+5V	2-3 On

Auto Power-on Select	JP5
Power-on via power button (default)	1-2 On
Power-on via AC power	2-3 On

Panel Power Select	JP7
+12V	1-2 On
+5V	3-4 On
+3.3V (default)	5-6 On

COM 1 RS232/ Power Select	JP6
RS232 (default)	1-3 (RI-), 2-4 (DCD-) On
RS232 with power	3-5 (+5V), 4-6 (+12V) On

Mini PCIe Signal Select	JP1
Mini PCIe (default)	1-2 On
mSATA	2-3 On

COM 2 RS232/ Power Select	JP8
RS232 (default)	1-3 (RI-), 2-4 (DCD-) On
RS232 with power	3-5 (+5V), 4-6 (+12V) On

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