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For the complete Zebra hardware product warranty statement, go to: http://www.zebra.com/warranty.

Service Information

If you have a problem using the equipment, contact your facility’s Technical or Systems Support. If there is a problem with the equipment, they will contact the Zebra Support at: http://www.zebra.com/support.

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Provide Documentation Feedback

If you have comments, questions, or suggestions about this guide, send an email to EVM-Techdocs@zebra.com.
Features

\textbf{NOTE} All features are available on both the TC51 (Standard) and TC51-HC (Healthcare) configurations, except where noted.

ActiveEdge Touch Zone is available on builds BSP 19-01.4 and above.

Installing a microSD Card

The microSD card slot provides secondary non-volatile storage. The slot is located under the battery pack. Refer to the documentation provided with the card for more information, and follow the manufacturer’s recommendations for use.
1. Lift the access door.

2. Slide the microSD card holder to the unlock position.

3. Lift the microSD card holder.

4. Insert the microSD card into the card holder door ensuring that the card slides into the holding tabs on each side of the door.

5. Close the microSD card holder and lock into position.

**CAUTION** Access door must be replaced and securely seated to ensure proper device sealing.

6. Re-install the access door.

**CAUTION** Follow proper electrostatic discharge (ESD) precautions to avoid damaging the microSD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.
Installing the Battery

To install the battery:

1. Insert the battery, bottom first, into the battery compartment in the back of the TC51.
2. Press the battery down until it snaps into place.

Charging the TC51

Use one of the following accessories to charge the TC51 and/or spare battery.

Table 1  Charging and Communication

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Charging</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Battery</td>
<td>Spare Battery</td>
</tr>
<tr>
<td>1-Slot USB/Charge Only Cradle Kit</td>
<td>CRD-TC51-1SCU-01</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>5-Slot Charge Only Cradle Kit</td>
<td>CRD-TC51-5SCHG-01</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4-Slot Charge Only Cradle with Battery Charger Kit</td>
<td>CRD-TC51-5SC4B-01</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>5-Slot Ethernet Cradle Kit</td>
<td>CRD-TC51-5SETH-01</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4-Slot Battery Charger Kit</td>
<td>SAC-TC51-4SCHG-01</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Rugged Charge/USB Cable</td>
<td>CBL-TC51-USB1-01</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
Charging the TC51

NOTE Ensure that you follow the guidelines for battery safety described in the TC51 User Guide.

1. To charge the main battery, connect the charging accessory to the appropriate power source.
2. Insert the TC51 into a cradle or attach to a cable. The TC51 turns on and begins charging. The Charging/Notification LED blinks amber while charging, then turns solid green when fully charged.

The battery (≥15.48 Watt hours (typical) / ≥ 4,150 mAh) charges from fully depleted to 90% in approximately 2.5 hours and from fully depleted to 100% in approximately three hours. In many cases the 90% charge provides plenty of charge for daily use. A full 100% charge lasts for approximately 14 hours of use. To achieve the best charging results use only Zebra charging accessories and batteries. Charge batteries at room temperature with the TC51 in sleep mode.

Charging the Spare Battery

1. Insert a spare battery into the spare battery slot.
2. Ensure the battery is seated properly.

The Spare Battery Charging LED blinks indicating charging. See Table 2 for charging indicators.

The battery (≥15.48 Watt hours (typical) / ≥ 4,150 mAh) charges from fully depleted to 90% in approximately 2.5 hours and from fully depleted to 100% in approximately three hours. In many cases the 90% charge provides plenty of charge for daily use. A full 100% charge lasts for approximately 14 hours of use. To achieve the best charging results use only Zebra charging accessories and batteries.

Table 2 Charging/Notification LED Charging Indicators

<table>
<thead>
<tr>
<th>State</th>
<th>LED</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td></td>
<td>TC51 is not charging. TC51 is not inserted correctly in the cradle or connected to a power source. Charger/cradle is not powered.</td>
</tr>
<tr>
<td>Slow Blinking Amber (1 blink every 4 seconds)</td>
<td></td>
<td>TC51 is charging.</td>
</tr>
<tr>
<td>Slow Blinking Red (1 blink every 4 seconds)</td>
<td></td>
<td>TC51 is charging but the battery is at end of useful life.</td>
</tr>
<tr>
<td>Solid Green</td>
<td></td>
<td>Charging complete.</td>
</tr>
<tr>
<td>Solid Red</td>
<td></td>
<td>Charging complete but the battery is at end of useful life.</td>
</tr>
<tr>
<td>Fast Blinking Amber (2 blinks/second)</td>
<td></td>
<td>Charging error, e.g.:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Temperature is too low or too high.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Charging has gone on too long without completion (typically eight hours).</td>
</tr>
<tr>
<td>Fast Blinking Red (2 blinks/second)</td>
<td></td>
<td>Charging error but the battery is at end of useful life, e.g.:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Temperature is too low or too high.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Charging has gone on too long without completion (typically eight hours).</td>
</tr>
</tbody>
</table>

Charge batteries in temperatures from 0°C to 40°C (32°F to 104°F). The device or cradle always performs battery charging in a safe and intelligent manner. At higher temperatures (e.g. approximately +37°C (+98°F)) the device or cradle may for small periods of time alternately enable and disable battery charging to keep the battery at acceptable temperatures. The device and cradle indicates when charging is disabled due to abnormal temperatures via its LED.
1-Slot USB Charging Cradle

5-Slot Charge Only Cradle
4-Slot Charge Only Cradle with Battery Charger

5-Slot Ethernet Cradle
4-Slot Battery Charger

Rugged Charge/USB Cable
Scanning

To read a bar code, a scan-enabled application is required. The TC51 contains the DataWedge application that allows the user to enable the imager, decode the bar code data and display the bar code content.

1. Ensure that an application is open on the TC51 and a text field is in focus (text cursor in text field).
2. Point the exit window on the top of the TC51 at a bar code.

3. Press and hold the scan button.
   The red LED aiming pattern turns on to assist in aiming.

   \textbf{NOTE} When the TC51 is in Picklist mode, the imager does not decode the bar code until the crosshair or aiming dot touches the bar code.

4. Ensure the bar code is within the area formed by the crosshairs in the aiming pattern. The aiming dot is used for increased visibility in bright lighting conditions.

\begin{figure}[h]
\centering
\includegraphics[width=0.5\textwidth]{imager_scanning.png}
\caption{Imager Scanning}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=0.5\textwidth]{aiming_pattern.png}
\caption{Aiming Pattern}
\end{figure}
5. The Data Capture LED lights green and a beep sounds, by default, to indicate the bar code was decoded successfully.
6. Release the scan button.

   **NOTE** Imager decoding usually occurs instantaneously. The TC51 repeats the steps required to take a digital picture (image) of a poor or difficult bar code as long as the scan button remains pressed.

7. The bar code content data displays in the text field.

**Ergonomic Considerations**

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**Figure 3**  *Pick List Mode with Multiple Bar Codes in Aiming Pattern*

**Figure 4**  *Ergonomic Considerations*