

Harmful Ingredients

The following chemicals are known to damage the plastics on the device and should not come in contact with the device: acetone; ketones; ethers; aromatic and chlorinated hydrocarbons; aqueous or alcoholic alkaline solutions; ethanolamine; toluene; trichloroethylene; benzene; carboic acid and TB-lysoform.

Many vinyl gloves contain phthalate additives, which are often not recommended for medical use and are known to be harmful to the housing of the device.

Device Cleaning Instructions

Do not apply liquid directly to the device. Dampen a soft cloth or use pre-moistened wipes. Do not wrap the device in the cloth or wipe, but gently wipe the unit. Be careful not to let liquid pool around the display window or other places. Allow the unit to air dry before use.



NOTE: For thorough cleaning, it is recommended to first remove all accessory attachments, such as hand straps or cradle cups, from the mobile device and to clean them separately.

Special Cleaning Notes

The device should not be handled while wearing vinyl gloves containing phthalates, or before hands are washed to remove contaminant residue after gloves are removed.

If products containing any of the harmful ingredients listed above are used prior to handling the device, such as hand sanitizer that contain ethanolamine, hands must be completely dry before handling the device to prevent damage to the device.



IMPORTANT: If the battery connectors are exposed to cleaning agents, thoroughly wipe off as much of the chemical as possible and clean with an alcohol wipe. It is also recommended to install the battery in the terminal prior to cleaning and disinfecting the device to help minimize buildup on the connectors.

When using cleaning/disinfectant agents on the device, it is important to follow the directions prescribed by the cleaning/disinfectant agent manufacturer.

Cleaning Materials Required

- Alcohol wipes
- Lens tissue
- Cotton-tipped applicators
- Isopropyl alcohol
- Can of compressed air with a tube.

Cleaning Frequency

The cleaning frequency is at the customer's discretion due to the varied environments in which the mobile devices are used and may be cleaned as frequently as required. When dirt is visible, it is recommended to clean the mobile device to avoid build up of particles which make the device more difficult to clean later on.

For consistency and optimum image capture, it is recommended to clean the camera window periodically especially when used in environments prone to dirt or dust.

Cleaning the Device

Housing

Thoroughly wipe the housing, including all buttons and triggers, using an approved alcohol wipe.

Display

The display can be wiped down with an approved alcohol wipe, but care should be taken not to allow any pooling of liquid around the edges of the display. Immediately dry the display with a soft, non-abrasive cloth to prevent streaking.

Camera and Exit Window

Wipe the camera and exit window periodically with a lens tissue or other material suitable for cleaning optical material such as eyeglasses.

Cleaning Battery Connectors

To clean the battery connectors:

1. Remove the main battery from the mobile computer.
2. Dip the cotton portion of the cotton-tipped applicator in isopropyl alcohol.
3. To remove any grease or dirt, rub the cotton portion of the cotton-tipped applicator back-and-forth across the connectors on the battery and terminal sides. Do not leave any cotton residue on the connectors.
4. Repeat at least three times.
5. Use a dry cotton-tipped applicator and repeat steps 3 and 4. Do not leave any cotton residue on the connectors.
6. Inspect the area for any grease or dirt and repeat the cleaning process if necessary.



CAUTION: After cleaning the battery connectors with bleach-based chemicals, follow the Battery Connector Cleaning instructions to remove bleach from the connectors.

Cleaning Cradle Connectors

To clean the connectors on a cradle:

1. Remove the DC power cable from the cradle.
2. Dip the cotton portion of the cotton-tipped applicator in isopropyl alcohol.
3. Rub the cotton portion of the cotton-tipped applicator along the pins of the connector. Slowly move the applicator back-and-forth from one side of the connector to the other. Do not leave any cotton residue on the connector.
4. All sides of the connector should also be rubbed with the cotton-tipped applicator.
5. Remove any lint left by the cotton-tipped applicator.
6. If grease and other dirt can be found on other areas of the cradle, use a lint-free cloth and alcohol to remove.

7. Allow at least 10 to 30 minutes (depending on ambient temperature and humidity) for the alcohol to air dry before applying power to cradle.

If the temperature is low and humidity is high, longer drying time is required. Warm temperature and low humidity requires less drying time.



CAUTION: After cleaning the cradle connectors with bleach-based chemicals, follow the Cleaning Cradle Connectors instructions to remove bleach from the connectors.

Troubleshooting

Resetting the Device

The reset functions include the following:

- Soft reset
- Hard reset
- Enterprise reset

Performing a Soft Reset

Perform a soft reset if applications stop working.

1. Press and hold the Power button until the menu appears.
2. Touch **Restart**.

The device reboots.

Performing a Hard Reset



CAUTION: Performing a hard reset with a microSD card installed in the device may cause damage or data corruption to the microSD card. All un-saved data is lost after performing a hard reset.

Perform a hard reset if the device stops responding.

1. Simultaneously press and hold the Power button, 1 and 9 keys for five seconds.
2. When the screen turns off, release the buttons.

The device reboots.


MC3300x

The following table provide typical problems that might arise and the solution for correcting the problem.

Table 26 Troubleshooting the MC3300x

Problem	Cause	Solution
Mobile computer does not turn on.	Main battery not charged.	Charge or replace the main battery.
	Main battery not installed properly.	Ensure the battery is installed properly.
	MC3300x not responding.	Perform a soft reset. If the mobile computer still does not turn on, perform a hard reset. For more information see Resetting the Device on page 218 .
Battery did not charge.	Battery failed.	Replace battery. If the mobile computer still does not operate, try a soft reset, then a hard reset. See Resetting the Device on page 218
	Mobile computer removed from cradle while battery was charging.	Insert mobile computer in cradle and begin charging. If a battery is fully depleted, it can take up to 2.2 hours to fully recharge a 2740 mAh PowerPrecision+ standard battery and it can take up to 3.8 hours to fully recharge a 5200 mAh PowerPrecision+ extended battery.
	Extreme battery temperature.	Battery does not charge if ambient charging temperature of the battery is below 32°F (0°C) or above 104°F (40°C).
Cannot see characters on screen.	Mobile computer not powered on.	Press the Power button.
During data communication, no data was transmitted, or transmitted data was incomplete.	Mobile computer removed from cradle or unplugged from host computer during communication.	Replace the mobile computer in the cradle, or reattach the cable and re-transmit.
	Incorrect cable configuration.	See the system administrator.
Mobile computer does not emit sound.	Volume setting is low or turned off.	Click on the speaker icon to increase the volume.
MC3300x turns itself off.	MC3300x is inactive.	The mobile computer turns off after a period of inactivity. This period can be set from 15 seconds to 30 minutes.
	Battery is depleted.	Recharge or replace the battery.
A message appears stating that the mobile computer memory is full.	Too many applications installed on the mobile computer.	Remove user-installed applications on the MC3300x to recover memory. Go to Settings > Apps . Select the unused programs and touch Uninstall .

Table 26 Troubleshooting the MC3300x (Continued)

Problem	Cause	Solution
The MC3300x does not decode when reading barcode.	DataWedge is not enabled.	Ensure that DataWedge is enabled and configured properly.
	Unreadable barcode.	Ensure the symbol is not defaced.
	Distance between the MC3300x and barcode is incorrect.	Place the MC3300x within proper scanning range.
	MC3300x is not programmed for the barcode type.	Program the MC3300x to accept the type of barcode being scanned.
	MC3300x is not programmed to generate a beep.	If the MC3300x does not beep on a good decode, set the application to generate a beep on good decode.
MC3300x cannot find any Bluetooth devices nearby.	Too far from other Bluetooth devices.	Move closer to the other Bluetooth device(s), within a range of 10 meters (32.8 feet).
	The Bluetooth device(s) nearby are not turned on.	Turn on the Bluetooth device(s) to find.
	The Bluetooth device(s) are not in discoverable mode.	Set the Bluetooth device(s) to discoverable mode. If needed, refer to the device's user documentation for help.
Cannot connect to WLAN (on channels 12-13 and all 5GHz channels).	Access Point (AP) does not broadcast country code.	Disable 802.11d feature. Go to Settings > Wi-Fi >  > Additional settings > Country Selection . A warning window pops up indicating you must select the country in which you are using the device. This enables all channels for the selected country even if the AP does not broadcast country code.
When trying to open Files or other applications, the application automatically closes.	The Internal Memory is full.	Connect the MC3300x to a host computer and delete files from Internal Memory using the host computer.

1-Slot USB Charge Cradle

Table 27 Troubleshooting the 1-Slot USB Charge Cradle

Problem	Cause	Solution
MC3300x Charge LED Indicator does not light when MC3300x inserted.	Cradle is not receiving power.	Ensure the power cable is connected securely to both the cradle and to AC power.
	MC3300x is not correctly seated.	Remove and re-insert the MC3300x into the cradle, ensuring it is correctly seated.
Spare Battery Charging LED does not light when spare battery is inserted.	Spare battery not correctly seated.	Remove and re-insert the spare battery into the cradle, ensuring it is correctly seated.
MC3300x battery is not charging.	MC3300x was removed from cradle or cradle was unplugged from AC power too soon.	Ensure cradle is receiving power. Ensure the MC3300x is seated correctly. If a battery is fully depleted, it can take up to 2.2 hours to fully recharge a 2740 mAh PowerPrecision+ standard battery and it can take up to 3.8 hours to fully recharge a 5200 mAh PowerPrecision+ extended battery.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.
	The MC3300x is not fully seated in the cradle.	Remove and re-insert the MC3300x into the cradle, ensuring it is firmly seated.
	Extreme battery temperature.	Battery does not charge if ambient temperature is below 0 °C (32 °F) or above 40 °C (104 °F).
Spare battery is not charging.	Battery not fully seated in charging slot.	Remove and re-insert the spare battery into the cradle, ensuring it is correctly seated.
	Battery inserted incorrectly.	Ensure the contacts are facing down and toward the back of the cradle.
During data communication, no data was transmitted, or transmitted data was incomplete.	MC3300x removed from cradle during communication.	Replace MC3300x in cradle and retransmit.
	Incorrect cable configuration.	See the system administrator.
	Communication software is not installed or configured properly.	See the system administrator.

5-Slot Charge Only ShareCradle

Table 28 Troubleshooting the 5-Slot Charge Only ShareCradle

Problem	Cause	Solution
Mobile computer Charge LED Indicator does not light when mobile computer inserted.	Cradle is not receiving power.	Replace the MC3300x in the cradle. Go to Settings > About device > Status to view battery status.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.
	MC3300x is not inserted correctly in the cradle.	Remove the MC3300x and reinsert it correctly. Verify charging is active. Go to Settings > About device > Status to view battery status.
	Ambient temperature of the cradle is too warm.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
Mobile computer Charge LED indicator is a fast blinking red when mobile computer inserted.	Ambient temperature of the cradle is too low or too high.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
	Charging has gone on too long without completion (typically eight hours).	Verify that other batteries charge properly. If so, replace the faulty battery.

5-Slot Ethernet ShareCradle

Table 29 Troubleshooting the 5-Slot Ethernet ShareCradle

Problem	Cause	Solution
Mobile computer Charge LED Indicator does not light when mobile computer inserted.	Cradle is not receiving power.	Replace the MC3300x in the cradle. Go to Settings > About device > Status to view battery status.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.
	MC3300x is not inserted correctly in the cradle.	Remove the MC3300x and reinsert it correctly. Verify charging is active. Go to Settings > About device > Status to view battery status.
	Ambient temperature of the cradle is too warm.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
Mobile computer Charge LED indicator is a fast blinking red when mobile computer inserted.	Ambient temperature of the cradle is too low or too high.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
	Charging has gone on too long without completion (typically eight hours).	Verify that other batteries charge properly. If so, replace the faulty battery.

5-Slot ShareCradle with 4-Slot Battery Charger

Table 30 Troubleshooting the 5-Slot ShareCradle with 4-Slot Battery Charger

Problem	Cause	Solution
Mobile computer Charge LED Indicator does not light when mobile computer inserted.	Cradle is not receiving power.	Replace the MC3300x in the cradle. Go to Settings > About device > Status to view battery status.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.
	MC3300x is not inserted correctly in the cradle.	Remove the MC3300x and reinsert it correctly. Verify charging is active. Go to Settings > About device > Status to view battery status.
	Ambient temperature of the cradle is too warm.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
Mobile computer Charge LED indicator is a fast blinking red when mobile computer inserted.	Ambient temperature of the cradle is too low or too high.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
	Charging has gone on too long without completion (typically eight hours).	Verify that other batteries charge properly. If so, replace the faulty battery.
Spare Battery Charging LED does not light when spare battery is inserted.	Spare battery not correctly seated.	Remove and re-insert the spare battery into the cradle, ensuring it is correctly seated.
Spare battery is not charging.	Battery not fully seated in charging slot.	Remove and re-insert the spare battery into the cradle, ensuring it is correctly seated.
	Battery inserted incorrectly.	Ensure the contacts are facing down and toward the back of the cradle.

5-Slot Ethernet ShareCradle with 4-Slot Battery Charger

Table 31 Troubleshooting the 5-Slot Ethernet ShareCradle with 4-Slot Battery Charger

Problem	Cause	Solution
Mobile computer Charge LED Indicator does not light when mobile computer inserted.	Cradle is not receiving power.	Replace the MC3300x in the cradle. Go to Settings > About device > Status to view battery status.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.
	MC3300x is not inserted correctly in the cradle.	Remove the MC3300x and reinsert it correctly. Verify charging is active. Go to Settings > About device > Status to view battery status.
	Ambient temperature of the cradle is too warm.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
Mobile computer Charge LED indicator is a fast blinking red when mobile computer inserted.	Ambient temperature of the cradle is too low or too high.	Move the cradle to an area where the ambient temperature is between 0 °C (32 °F) and 35 °C (95 °F).
	Charging has gone on too long without completion (typically eight hours).	Verify that other batteries charge properly. If so, replace the faulty battery.
Spare Battery Charging LED does not light when spare battery is inserted.	Spare battery not correctly seated.	Remove and re-insert the spare battery into the cradle, ensuring it is correctly seated.
Spare battery is not charging.	Battery not fully seated in charging slot.	Remove and re-insert the spare battery into the cradle, ensuring it is correctly seated.
	Battery inserted incorrectly.	Ensure the contacts are facing down and toward the back of the cradle.

4-Slot Spare Battery Charger

Table 32 Troubleshooting the 4-Slot Spare Battery Charger

Problem	Cause	Solution
Spare Battery Charging LED does not light when spare battery is inserted.	Spare battery is not correctly seated.	Remove and re-insert the spare battery into the charging slot, ensuring it is correctly seated.

Table 32 Troubleshooting the 4-Slot Spare Battery Charger (Continued)

Problem	Cause	Solution
Spare Battery not charging.	Charger is not receiving power.	Ensure the power cable is connected securely to both the charger and to AC power.
	Spare battery is not correctly seated.	Remove and re-insert the battery into the cradle, ensuring it is correctly seated.
	Battery was removed from the charger or charger was unplugged from AC power too soon.	Ensure charger is receiving power. Ensure the spare battery is seated correctly. If a battery is fully depleted, it can take up to 2.2 hours to fully recharge a 2740 mAh PowerPrecision+ standard battery and it can take up to 3.8 hours to fully recharge a 5200 mAh PowerPrecision+ extended battery.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.

20-Slot Spare Battery Charger

Table 33 Troubleshooting the 20-Slot Spare Battery Charger

Problem	Cause	Solution
Spare Battery Charging LED does not light when spare battery is inserted.	Spare battery is not correctly seated.	Remove and re-insert the spare battery into the charging slot, ensuring it is correctly seated.
Spare Battery not charging.	Charger is not receiving power.	Ensure the power cable is connected securely to both the charger and to AC power.
	Spare battery is not correctly seated.	Remove and re-insert the battery into the cradle, ensuring it is correctly seated.
	Battery was removed from the charger or charger was unplugged from AC power too soon.	Ensure charger is receiving power. Ensure the spare battery is seated correctly. If a battery is fully depleted, it can take up to 3 hours to fully recharge a 2740 mAh PowerPrecision+ standard battery and it can take up to 5.5 hours to fully recharge a 5200 mAh PowerPrecision+ extended battery.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.

USB Charge Cable

Table 34 Troubleshooting the USB Charge Cable

Symptom	Possible Cause	Action
MC3300x Charge LED Indicator does not light when MC3300x is attached.	Cable is not receiving power.	Ensure the power cable is connected securely to both the cable and to AC power.
	MC3300x is not seated correctly in the cable cup.	Remove and re-insert the MC3300x into the MC3300x cable cup, ensuring it is correctly seated.
MC3300x battery is not charging.	MC3300x was detached from cable or cable was unplugged from AC power too soon.	Ensure the cable is receiving power. Ensure MC3300x is seated correctly. If a battery is fully depleted, it can take up to 2.2 hours to fully recharge a 2740 mAh PowerPrecision+ standard battery and it can take up to 6 hours to fully recharge a 5200 mAh PowerPrecision+ extended battery.
	Battery is faulty.	Verify that other batteries charge properly. If so, replace the faulty battery.
	The MC3300x is not fully seated in the cable.	Remove and re-insert the MC3300x into the cable cup, ensuring it is correctly seated.
During data communication, no data transmits, or transmitted data was incomplete.	Cable was disconnected from MC3300x during communications.	Re-attach the cable and retransmit.
	Incorrect cable configuration.	See the system administrator.
	Communication software is not installed or configured properly.	See the system administrator.

Technical Specifications

Introduction

For device technical specifications, go to www.zebra.com/support.

Data Capture Supported Symbolologies

Table 35 Data Capture Supported Symbolologies

Item	Description
1D	Chinese 2 of 5, Codabar, Code 11, Code 128, Code 39, Code 93, Discrete 2 of 5, EAN-8, EAN-13, GS1 DataBar, GS1 DataBar Expanded, GS1 DataBar Limited, Interleaved 2 of 5, Korean 2 of 5, MSI, TLC 39, Matrix 2 of 5, Trioptic, UPCA, UPCE, UPCE1, Web Code.
2D	Australian Postal, Aztec, Canadian Postal, Composite AB, Composite C, Data Matrix, DotCode, Dutch Postal, Japan Postal, Maxicode, Micro PDF, Micro QR, PDF, QR Code, UK Postal, US Planet, US Postnet, US4State, US4State FICS.

SE965 Decode Zone

The table below lists the typical distances for selected barcode densities. The minimum element width (or “symbol density”) is the width in mils of the narrowest element (bar or space) in the symbol.

Table 36 SE965 Decode Distances

Symbol Density/ Barcode Type	Barcode Content/ Contrast ^{Note 1}	Typical Working Ranges	
		Near	Far
5.0 mil Code 128	1234 80% MRD	1.2 in 3.05 cm	7.7 in 19.56 cm
5.0 mil Code 39	ABCDEFGH 80% MRD	1.2 in 3.05 cm	12.5 in 31.75 cm
7.5 mil Code 39	ABCDEF 80% MRD	1.1 in 2.79 cm	18.5 in 46.99 cm
10 mil Code 128	1234 80% MRD	1.2 in 3.05 cm Note 3	19.0 in 48.26 cm

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Table 36 SE965 Decode Distances (Continued)

Symbol Density/ Barcode Type	Barcode Content/ Contrast ^{Note 1}	Typical Working Ranges	
		Near	Far
13 mil 100% UPC	012345678905 80% MRD	1.6 in 4.06 cm	27.0 in 68.58 cm
15 mil Code 128	1234 80% MRD	1.0 in 2.54 cm Note 3	29.5 in 74.93 cm
20 mil Code 39	123 80% MRD	1.4 in 3.56 cm Note 3	52.0 in 132.08 cm
55 mil Code 39	CD 80% MRD	31.4 in 8.64 cm Note 3	100.0 in 254.0 cm
100 mil Code 39	123456 80% MRD	2.0 ft 60.96 cm Note 3	17 ft 518.16 cm
<p>NOTE: Contrast is measured as Mean Reflective Difference (MRD) at 650 nm.</p> <p>Working range specifications at temperature = 23°C, pitch=18°, roll=0°, skew=0°, photographic quality, ambient light ~150 ft-c, humidity 45-70% RH.</p> <p>Dependent upon width of barcode.</p> <p>Distances measured from front edge of scan engine chassis.</p>			

SE4720 Decode Zone

The table below lists the typical distances for selected barcode densities. The minimum element width (or “symbol density”) is the width in mils of the narrowest element (bar or space) in the symbol.

Table 37 SE4720 Decode Distances

Symbol Density/ Barcode Type	Typical Working Ranges	
	Near	Far
<p>NOTE: Photographic quality barcode at 18° pitch angle under 0.1 fcd ambient illumination.</p> <p>Dependent upon width of barcode.</p>		

SE4770 Decode Zone

The table below lists the typical distances for selected barcode densities. The minimum element width (or “symbol density”) is the width in mils of the narrowest element (bar or space) in the symbol.

Table 38 SE4770 Decode Distances

Symbol Density/ Barcode Type	Typical Working Ranges	
	Near	Far
NOTE: Photographic quality barcode at 18° pitch angle under 0.1 fcd ambient illumination. Dependent upon width of barcode.		

SE4850-ER Decode Zone

The table below lists the typical distances for selected barcode densities. The minimum element width (or “symbol density”) is the width in mils of the narrowest element (bar or space) in the symbol.

Table 39 SE4850-ER Decode Distances

Symbol Density/ Barcode Type	Typical Working Ranges @20 Ft-Cd Minimum	
	Near	Far
10 mil Code 39	3.0 in. * 7.6 cm *	85.0 in. 215.9 cm
13 100% UPC	3.5 in. 8.9 cm	90.0 in. 228.6 cm
15 mil Code 128	6.0 in. * 15.2 cm *	100.0 in. 254.0 cm
20 mil Code 39	4.0 in. * 10.2 cm *	172.0 in. 436.9 cm
40 mil Code 39	6.0 in. * 15.2 cm *	340.0 in. ** 863.6 cm **
55 mil Code 39	7.0* in. * 17.8* cm *	430.0 in. ** 1092.2 cm **
100 mil Code 39 (paper)	20.0* in. * 50.8* cm *	54.0 in. ** 137.2 cm **
100 mil Code 128 (reflective)	11.0 in. * 27.9 cm *	700.0 in. 1778.0 cm
DataMatrix 10	5.0 in. 12.7 cm	45.0 in. 114.3 cm

Specifications

Table 39 SE4850-ER Decode Distances (Continued)

Symbol Density/ Barcode Type	Typical Working Ranges @20 Ft-Cd Minimum	
	Near	Far
DataMatrix 55	5.0 in. 12.7 cm	250.0 in. 635.0 cm
15 mil Code 128 (4 in. wide)	8.0 in. * 20.3 cm *	100.0 in. 254.0 cm
NOTE: * Limited by width of bar code in field of view. ** Range is reduced under low ambient light level.		

MC3300x Connector Pin-Out

Figure 174 I/O Connector

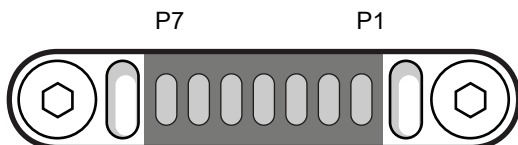


Table 40 I/O Connector Pin-Outs

Pin	Signal Name	Description
1	Ground	Ground pin connected to the Cradle or USB Charge Cable ground.
2	USB ID	Identification signal for USI OTG communication (USB ID) which determines USB mode (host or device).
3	POWER_IN_CON (9V/1.5A or 5V/2Amax)	DC Power supply from the Cradle.
4	USB PWR	Power supply from USB Charging Cable.
5	USB D-	USB OTG data signal negative.
6	USB D+	USB OTG data signal positive.
7	GND	Ground pin connected to the Cradle or USB Charge Cable ground.

1-Slot USB Charge Cradle with Spare Battery Charger Technical Specifications

Table 41 1-Slot USB Charge Cradle with Spare Battery Charger Technical Specifications

Item	Description
Dimensions	Height: 104.5 mm (4.11 in.) Width: 99.1 mm (3.90 in.) Depth: 155.5 mm (6.12 in.)
Weight	376 g (13.26 oz)
Input Voltage	12 VDC

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Table 41 1-Slot USB Charge Cradle with Spare Battery Charger Technical Specifications (Continued)

Item	Description
Power Consumption	17 watts
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

5-Slot Charge Only ShareCradle Technical Specifications

Table 42 5-Slot Charge Only ShareCradle Technical Specifications

Item	Description
Dimensions	Height: 123.9 mm (4.88 in.) Width: 489.0 mm (19.25 in.) Depth: 142.8 mm (5.622 in.)
Weight	1068 g (37.67 oz)
Input Voltage	12 VDC
Power Consumption	45 watts
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

5-Slot Ethernet ShareCradle Technical Specifications

Table 43 5-Slot Ethernet ShareCradle Technical Specifications

Item	Description
Dimensions	Height: 123.9 mm (4.88 in.) Width: 489.0 mm (19.25 in.) Depth: 142.8 mm (5.622 in.)
Weight	2070 g (37.67 oz)
Input Voltage	12 VDC
Power Consumption	47 watts
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

5-Slot Charge ShareCradle with 4-Slot Battery Charger Technical Specifications

Table 44 5-Slot Charge ShareCradle with 4-Slot Battery Charger Technical Specifications

Item	Description
Dimensions	Height: 123.9 mm (4.88 in.) Width: 489.0 mm (19.25 in.) Depth: 142.8 mm (5.622 in.)
Weight	2194 g (77.39 oz)
Input Voltage	12 VDC
Power Consumption	67 watts
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)

Specifications

Table 44 5-Slot Charge ShareCradle with 4-Slot Battery Charger Technical Specifications (Continued)

Item	Description
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

5-Slot Ethernet ShareCradle with 4-Slot Battery Charger Technical Specifications

Table 45 5-Slot Ethernet ShareCradle with 4-Slot Battery Charger Technical Specifications

Item	Description
Dimensions	Height: 123.9 mm (4.88 in.) Width: 489.0 mm (19.25 in.) Depth: 142.8 mm (5.622 in.)
Weight	2229 g (78.62 oz)
Input Voltage	12 VDC
Power Consumption	69 watts
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

4-Slot Spare Battery Charger Technical Specifications

Table 46 4-Slot Spare Battery Charger Technical Specifications

Item	Description
Dimensions	Height: 97.17 mm (3.82 in.) Width: 97.55 mm (3.84 in.) Depth: 143.0 mm (5.63 in.)
Weight	510 g (17.98 oz)
Input Voltage	12 VDC

Specifications

Table 46 4-Slot Spare Battery Charger Technical Specifications (Continued)

Item	Description
Power Consumption	30 watts
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

20-Slot Spare Battery Charger Technical Specifications

Table 47 20-Slot Spare Battery Charger Technical Specifications

Item	Description
Dimensions	Height: 105.2 mm (4.14 in.) Width: 489.0 mm (19.25 in.) Depth: 142.8 mm (5.62 in.)
Weight	2620 g (92.42 oz)
Input Voltage	12 VDC
Power Consumption	99 watts
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

USB Charge Cable Technical Specifications

Table 48 USB Charge Cable Technical Specifications

Item	Description
Dimensions	Height: 32.6 mm (1.28 in.) Width: 68.2 mm (2.68 in.) Depth: 1690 mm (66.53 in.)
Weight	120 g (4.23 oz)
Input Voltage	5 VDC
Power Consumption	N/A
Operating Temperature	0°C to 50°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)
Humidity	10% to 95% non-condensing
Drop	75 cm (30 in.) to concrete; 2 drops/side for a total of 12 drops at room temperature.
Electrostatic Discharge (ESD)	+/- 20 kV air +/- 10 kV contact +/- 10 kV indirect discharge

Keypads

Introduction

The MC3300x offers three types of keypad configurations: 29 key, 38 key and 47 key.

MC3300x 29-Key Keypad

The 29-key keypad contains a Power button, application keys, scroll keys and function keys. The keypad is color-coded to indicate the alternate function key (blue) values and the alternate ALPHA key (orange) values. Note that keypad functions can be changed by an application so the mobile computer keypad may not function as described. See the tables below for key and button descriptions and keypad alternate functions.

Figure 175 29-Key Keypad Configuration

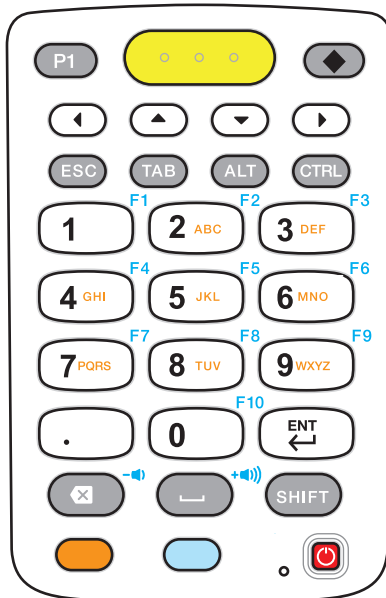












Table 49 29-Key Keypad Descriptions

Key	Description
Power (red) 	Powers the mobile computer screen on and off (resume and suspend).
Program 1 	User programmable; defaults to Back button.
Diamond 	Provides a 3x3 matrix on the screen with nine additional symbols. With a single tap you can select via touch input or the keyboard, 1-9 numerical keys. Double tapping the Diamond key locks the 3x3 grid, and you can select multiple keys. Pressing the Diamond key a third time closes the 3x3 matrix.
Scan (yellow) 	Used in scanning applications, press to scan a barcode. This key has the same function as activating the side mounted scan buttons.
Scroll Keys 	Moves up, down, left, or right from one item to another. Increases/decreases specified values.
ESC 	Produces the ESC function.
TAB 	Produces the TAB function.
ALT 	Produces the ALT function.
CTRL 	Press and release the CTRL key to activate the keypad alternate CTRL functions. The C icon appears in the Status bar. A Press and release the CTRL key two times to return to the default keypad functions.
Numeric/Alpha/Special Function 	Numeric, alpha or special function keys. Numeric by default. Produces a special function when the blue function key is activated. Produces alpha values when the orange alpha key is activated. In Alpha state, produces the lower case alphabetic characters on the key. Each key press produces the next alphabetic character in sequence. For example, press and release the alpha key and then press the 4 key once to produce the letter 'g'; press and release the alpha key and then press the 4 key three times to produce the letter 'i'. When the SHIFT key is pressed in Alpha state, the upper case alphabetic characters on the key are produced. For example, press and release the alpha key, press and hold the SHIFT key and then press the 4 key once to produce the letter 'G'; press and release the alpha key, press and hold the SHIFT key and then press the 4 key three times to produce the letter 'I'.

Keypads

Table 49 29-Key Keypad Descriptions (Continued)











Key	Description
Period/Decimal Point 	Produces a period for alpha entries and a decimal point for numeric entries by default.
Enter 	Executes a selected item or function.
BKSP 	Backspace function by default. Decreases volume when the blue function key is activated.
SPACE 	Space function by default. Increases volume when the blue function key is activated.
Shift 	Press and release the SHIFT key to activate the keypad alternate SHIFT functions. The  icon appears on the Status bar. Press and release the SHIFT key again to return to the default keypad functions.
Orange 	Press the orange alpha key to access the alternate alpha characters (shown on the keypad in orange). The  icon appears on the Status bar. Press and release the orange alpha key again to return to the default keypad functions.
Blue 	Press and release the blue function key to activate the keypad alternate functions (shown on the keypad in blue). The  icon appears on the Status bar. Press and release the blue function key again to return to the default keypad functions.

Table 50 29-key Keypad Input Modes

Key	Numeric State		Orange Key (Alpha Lowercase State)				Orange Key + Shift Key (Alpha Uppercase State)				Blue Key
		SHIFT + Key	1st Press	2nd Press	3rd Press	4th Press	1st Press	2nd Press	3rd Press	4th Press	
1	1	!	*								F1
2	2	@	a	b	c		A	B	C		F2
3	3	#	d	e	f		D	E	F		F3
4	4	\$	g	h	i		G	H	I		F4
5	5	%	j	k	l		J	K	L		F5
6	6	^	m	n	o		M	N	O		F6
7	7	&	p	q	r	s	P	Q	R	S	F7
8	8	*	t	u	v		T	U	V		F8
9	9	(	w	x	y	z	W	X	Y	Z	F9
0	0	)	0				0				F10

Table 50 29-key Keypad Input Modes (Continued)

Key	Numeric State		Orange Key (Alpha Lowercase State)				Orange Key + Shift Key (Alpha Uppercase State)				Blue Key
		SHIFT + Key	1st Press	2nd Press	3rd Press	4th Press	1st Press	2nd Press	3rd Press	4th Press	
.	.	>	.				.				
Back-space											Decrease Volume
Space											Increase Volume
NOTE: An application can change the key functions. The keypad may not function exactly as described.											

MC3300x 38-Key Keypad

The 38-key keypad contains a Power button, application keys, scroll keys and function keys. The keypad is color-coded to indicate the alternate function key (orange) values. Note that keypad functions can be changed by an application so the mobile computer keypad may not function as described. The tables below provide key and button descriptions and keypad alternate functions.

Figure 176 38-Key Keypad Configuration

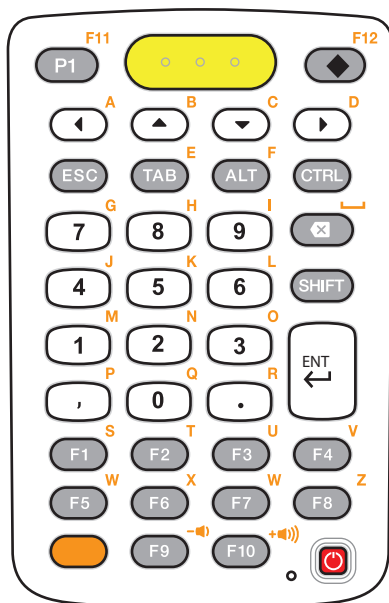
















Table 51 38-Key Keypad Descriptions

Key	Description
Power (red) 	Powers the mobile computer screen on and off (resume and suspend).
Program 1 	User programmable; defaults to Back button.
Diamond 	Provides a 3x3 matrix on the screen with nine additional symbols. With a single tap you can select via touch input or the keyboard, 1-9 numerical keys. Double tapping the Diamond key locks the 3x3 grid, and you can select multiple keys. Pressing the Diamond key a third time closes the 3x3 matrix.
Scan (yellow) 	Used in scanning applications, press to scan a barcode. This key has the same function as activating the side mounted scan buttons.
Scroll 	Moves up, down, left, or right from one item to another.
Orange 	Press the orange alpha key to access the alternate alpha characters (shown on the keypad in orange). The  icon appears on the Status bar. Press and release the orange alpha key again to return to the default keypad functions.
CTRL 	Press and release the CTRL key to activate the keypad alternate CTRL functions. The  icon appears on the Status bar. Press and release the CTRL key again to return to the default keypad functions. Press and release the blue FUNC key and then the CTRL key to activate the ALT functions. The  icon appears on the Status bar. Press and release the CTRL key two times to return to the default keypad functions.
ESC 	Produces the ESC function.
TAB 	Produces the TAB function.
ALT 	Produces the ALT function.
CTRL 	Produces the CTRL function.

Keypads

Table 51 38-Key Keypad Descriptions (Continued)

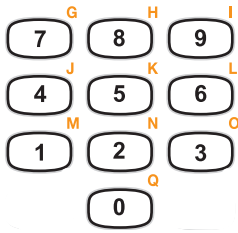






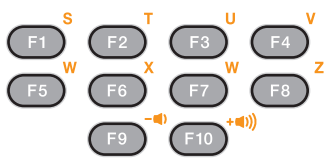
Key	Description
Numeric/Alpha/Special Function 	Press for the default numeric value. Produces alpha values when the orange alpha key is activated.
BKSP 	Backspace function by default. Decreases brightness when the blue FUNC key is activated.
Shift 	Press and release the SHIFT key to activate the keypad alternate SHIFT functions. The  icon appears on the Status bar. Press and release the SHIFT key again to return to the default keypad functions.
Enter 	Executes a selected item or function.
Period 	Produces a period for alpha entries and a decimal point for numeric entries.
Comma 	Produces a comma by default.
F1 - F10 	Special function keys by default.

Table 52 38-key Keypad Input Modes

Key	Normal	SHIFT + Key	Orange + Key	Orange + SHIFT + Key
P1			F11	
P2			F12	
Left Arrow			a	A
Up Arrow			b	B

Table 52 38-key Keypad Input Modes (Continued)

Key	Normal	SHIFT + Key	Orange + Key	Orange + SHIFT + Key
Down Arrow			c	C
Right Arrow			d	D
ESC				
TAB			e	E
ALT			f	F
CTRL				
7	7	&	g	G
8	8	*	h	H
9	9	(	l	L
BKSP	Backspace	Backspace	Space	Space
4	4	\$	j	J
5	5	%	k	K
6	6	^	l	L
1	1	!	m	M
2	2	@	n	N
3	3	#	o	O
,	,	<	p	P
0	0	)	q	Q
.	.	>	r	R
F1			s	S
F2			t	T
F3			u	U
F4			v	V
F5			w	W
F6			x	X
F7			y	Y
F8			z	Z
F9			Decrease Volume	
F10			Increase Volume	

NOTE: An application can change the key functions. The keypad may not function exactly as described.

MC3300x 47-Key Keypad

The 47-key keypad contains a Power button, application keys, scroll keys and function keys. The keypad is color-coded to indicate the alternate function key (blue) values. Note, that keypad functions can be changed by

Keypads

an application so the mobile computer keypad may not function as described. The tables below provide key and button descriptions and keypad alternate functions.

Figure 177 47-Key Keypad Configuration

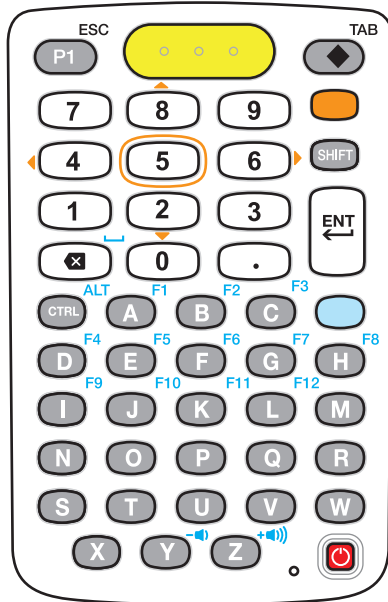


Table 53 47-Key Keypad Descriptions







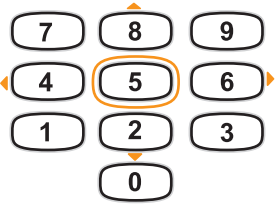






Key	Description
Power (red) 	Powers the mobile computer screen on and off (resume and suspend).
Program 1/ESC 	User programmable; defaults to Back button. With the Shift key activated, P1 produces the ESC function.
Diamond/TAB 	Provides a 3x3 matrix on the screen with nine additional symbols. With a single tap you can select via touch input or the keyboard, 1-9 numerical keys. Double tapping the Diamond key locks the 3x3 grid, and you can select multiple keys. Pressing the Diamond key a third time closes the 3x3 matrix. With the Shift key activated, P2 produces the TAB function.
Scan (yellow) 	Used in scanning applications, press to scan a barcode. This key has the same function as activating the side mounted scan buttons on the MC3300x-R or MC3300x-S.
Orange 	Press the orange key to access the alternate navigation and selection functions. The  icon appears on the Status bar. Press and release the orange key again to return to the default keypad functions.

Table 53 47-Key Keypad Descriptions (Continued)

Key	Description
<p>Numeric/Scroll/Select</p> 	<p>Numeric, scroll, select keys. Numeric by default. With the orange key activated, the 2, 4, 6, and 8 keys produce scroll functions and the 5 key produces a select function.</p>
<p>Shift</p> 	<p>Press and release the SHIFT key to momentarily activate the keypad alternate SHIFT functions. The  icon appears on the Status bar. Press and release the SHIFT key a second time to lock the keypad into the Shift-Lock mode. The  icon appears on the Status bar. Press and release the SHIFT key again to return to the default keypad functions.</p>
<p>Enter</p> 	<p>Executes a selected item or function.</p>
<p>Backspace/Space</p> 	<p>Backspace function by default. Produces the Space function when the blue function key is activated.</p>
<p>Period</p> 	<p>Produces a period for alpha entries and a decimal point for numeric entries.</p>

Keypads

Table 53 47-Key Keypad Descriptions (Continued)




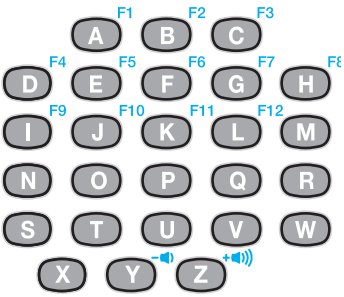


Key	Description
CTRL 	Press and release the CTRL key to activate the keypad alternate CTRL functions. The  icon appears on the Status bar. Press and release the CTRL key again to return to the default keypad functions. Press and release the blue function key and then the CTRL key to activate the ALT functions. The  icon appears on the Status bar. Press and release the CTRL key two times to return to the default keypad functions.
Alpha/Special Function 	Alpha by default. Special function by default when the blue function key is activated.
Blue 	Press and release the blue function function key to activate the keypad alternate functions (shown on the keypad in blue). The  icon appears on the Status bar. Press and release the blue function function key again to return to the default keypad functions.

Table 54 47-key Keypad Input Modes

Key	Normal	SHIFT + Key	Blue + Key	Orange + Key
A	a	A	F1	
B	b	B	F2	
C	c	C	F3	
D	d	D	F4	
E	e	E	F5	
F	f	F	F6	
G	g	G	F7	
H	h	H	F8	
I	i	I	F9	
J	j	J	F10	
K	k	K	F11	
L	l	L	F12	
M	m	M		
N	n	N		
O	o	O		
P	p	P		

Keypads

Table 54 47-key Keypad Input Modes (Continued)

Key	Normal	SHIFT + Key	Blue + Key	Orange + Key
Q	q	Q		
R	r	R		
S	s	S		
T	t	T		
U	u	U		
V	v	V		
W	w	W		
X	x	X		
Y	y	Y	Decrease Volume	
Z	z	Z	Increase Volume	
Backspace	Backspace	Delete	Space	
1	1	!		
2	2	@		Down Arrow
3	3	#		
4	4	\$		Left Arrow
5	5	%		
6	6	^		Right Arrow
7	7	&		
8	8	*		Up Arrow
9	9	(
0	0)		
.		>		
P1			ESC	
P2			TAB	
CTRL			ALT	
NOTE: An application can change the key functions. The keypad may not function exactly as described.				

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