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ZEBRA TC78 Mobile Computers

ZEBRA TC78 Mobile Computers User Guide

Contents

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Product Information

Specifications

The TC73 and TC78 Accessories Guide provides a range of accessories to power, enable productivity solutions, and protect the TC73 and TC78 mobile computers.

Accessories that Power Devices

Cradles

The cradles are available in single-slot and five-slot options for charging devices and spare Li-ion batteries.

Single-slot Charger

- SKU# CRD-NGTC7-2SC1B – Single-slot charge-only ShareCradle kit for charging a single device and spare Li-ion battery.
- SKU# CRD-NGTC7-2SE1B – Single-slot charge and USB ShareCradle kit with USB capability for charging a device and spare battery.

Five-slot Charger

- SKU# CRD-NGTC7-5SC5D – Charge-only ShareCradle kit for charging five devices.
- SKU# CRD-NGTC7-5SE5D – Five-slot charge/Ethernet ShareCradle kit for charging five devices with network speeds up to 1 Gbps.

Batteries

Spare Li-ion batteries are available with or without a BLE beacon.

BLE Battery with PowerPrecision Plus
SKU# BTRY-NGTC5TC7-44MABLE-01 – Standard capacity 4,680 mAh battery with PowerPrecision Plus and BLE beacon.

Product Usage Instructions

Cradle Usage

1. Connect the cradle to a power source using the provided cables.
2. Place the device securely in the cradle for charging.
3. Ensure proper alignment for charging to commence.

Battery Replacement

1. Remove the back cover of the device to access the battery compartment.
2. Carefully remove the old battery and replace it with a fully charged spare battery.
3. Securely close the back cover of the device.

FAQ

Q: How do I know if the battery is fully charged?
A: The device's indicator light will turn green when the battery is fully charged.

Accessories that power devices

Cradles

Single-slot charger

SKU# CRD-NGTC7-2SC1B
Single-slot charge-only ShareCradle kit. Charges a single device and any TC73 / TC78 spare Li-ion battery.

- A device with a standard battery charges from 0–80% in about 1½ hours.
- Includes: Power supply SKU# PWR-BGA12V50W0WW and DC cable SKU# CBL-DC-388A1-01.
- Sold separately: Country-specific AC line cord (listed later in this document).

Single-slot USB/Ethernet capable charger

SKU# CRD-NGTC7-2SE1B
Single-slot charge and USB ShareCradle kit. Charges a single device and any TC73 / TC78 spare Li-ion battery.

- A device with a standard battery charges from 0–80% in about 1½ hours.
- Includes: Power supply SKU# PWR-BGA12V50W0WW and DC cable SKU# CBL-DC-388A1-01.
- Sold separately: Country-specific AC line cord (listed later in this document), micro-USB cable SKU# 25-124330-01R, and USB to Ethernet module kit SKU# MOD-MT2-EU1-01

USB to Ethernet module kit

SKU# MOD-MT2-EU1-01
Connects single-slot charge/USB charger to a local area network via Ethernet over USB.

- 10/100/1000 Mbps speed with LEDs on the module to indicate connectivity and speed.
- Mechanical switch to choose micro-USB port or RJ45 Ethernet.

Five-slot charger

SKU# CRD-NGTC7-5SC5D
Charge-only ShareCradle kit to charge five devices.

- Can be mounted in a standard 19-inch rack system using mounting bracket SKU# BRKT-SCRD-SMRK-01.
- A device with a standard battery charges from 0–80% in about 1½ hours.
- Includes: Power supply SKU# PWR-BGA12V108W0WW, DC cable SKU# CBL-DC-381A1-01, and 5-pack of TC73 / TC78 inserts/shims.
- Sold separately: Country-specific AC line cord (listed later in this document).

Five-slot Ethernet charger

SKU# CRD-NGTC7-5SE5D
Five-slot charge/Ethernet ShareCradle kit. Charges five devices with network speeds of up to 1 Gbps.

- A device with a standard battery charges from 0–80% in about 1½ hours.
- Includes: Power supply SKU# PWR-BGA12V108W0WW, DC cable SKU# CBL-DC-381A1-01 and 5-pack of TC73 / TC78 inserts/shims.
- Sold separately: Country-specific AC line cord (listed later in this document).

Five-slot charger

SKU# CRD-NGTC7-5SC4B
Charge-only ShareCradle kit to charge four devices and four spare Li-ion batteries.

- Can be mounted in a standard 19-inch rack system using mounting bracket SKU# BRKT-SCRD-SMRK-01.
- A device with a standard battery charges from 0–80% in about 1½ hours.
- Includes: Power supply SKU# PWR-BGA12V108W0WW, DC cable SKU# CBL-DC-381A1-01, and 4-pack of TC73 / TC78 inserts.
- Sold separately: Country-specific AC line cord (listed later in this document)

Device cradle cup replacement kit

SKU# CRDCUP-NGTC7-01
One TC73 / TC78 device cradle cup replacement kit. Can be used to replace a TC7x series device cup on ShareCradle when upgrading to TC73 / TC78.

- Includes: Insert/shim.
- Also available as a 5-pack — 5 device cradle cups and 5 inserts/shims —SKU# CRDCUP-NGTC7-05.
- SHIM-CRD-NGTC7 Replacement inserts/shims for TC73 / TC78 ShareCradles.

Mounting options for chargers

Rack mounting for space optimization
Optimize available space by mounting any set of five-slot chargers for TC7X on a standard, 19-inch server rack.

- Ideal for customers that have several devices per location.
- Compatible with all five-slot chargers

Mounting bracket

SKU# BRKT-SCRD-SMRK-01
Use a five-slot ShareCradle mounting bracket to attach five-slot TC7X cradles to the wall or mount on a 19-inch server rack.

- Offers cable routing slots and a removable tray that stores /concrete and power supply.
- Adjustable orientations:
  - 25º angle for high-density (five-slot chargers).
  - Horizontal (single-slot or four-slot spare Li-ion charger).

Batteries

Spare Li-ion batteries

BLE battery with PowerPrecision Plus

SKU# BTRY-NGTC5TC7-44MABLE-01
Standard capacity 4,680 mAh battery with PowerPrecision Plus and BLE beacon.

- BLE beacon allows the device with this battery to be located even if powered off using Zebra Device Tracker.
- Premium-grade battery cells with longer lifecycles and tested to meet rigorous controls and standards.
- Obtain advanced battery state of health information including charge level and battery age based on usage patterns.
- Sold separately: Zebra Device Tracker licenses for either 1-year SKU# SW-BLE-DT-SP-1YR or 3-year SKU# SW-BLE-DT-SP-3YR.

Standard battery with PowerPrecision Plus

SKU# BTRY-NGTC5TC7-44MA-01

- Robust housing for optimal performance and durability.
- Battery state of health features.

Spare Li-ion batteries

Extended capacity battery with PowerPrecision Plus

SKU# BTRY-NGTC5TC7-66MA-01
Extended capacity 7,000 mAh battery with PowerPrecision Plus.

- Premium-grade battery cells with longer lifecycles and tested to meet rigorous controls and standards.
- Obtain advanced battery state of health information including charge level and battery age based on usage patterns.

Wireless charging battery with PowerPrecision Plus

SKU# BTRY-NGTC5TC7-44MAWC-01
TC78 Standard capacity 4,680 mAh battery with Wireless charging and PowerPrecision Plus.

Compatibility	
TC73	No
TC78	Yes

- Premium-grade battery cells with longer lifecycles and tested to meet rigorous controls and standards.

- Obtain advanced battery state of health information including charge level and battery age based on usage patterns.
- Works great with TC78 wireless charging vehicle cradle SKU# CRD-TC78-WCVC-01.

Spare battery charger

Battery charger

SKU# SAC-NGTC5TC7-4SCHG
Spare battery charger to charge any four spare Li-ion batteries.

- Standard capacity 4,400 mAh batteries charge from 0–90% in about 4 hours.
- Sold separately: Power Supply SKU# PWR-BGA12V50W0WW, DC Cable SKU# CBL-DC-388A1-01 and Country-specific AC Line cord (listed later in this document).

4 spare battery chargers can be mounted as shown with mounting bracket SKU# BRKT-SCRD-SMRK-01
Use to mount to a wall or with h standard 19″ server rack for more density and save space.

4 Slot Battery Charger Conversion Kit

SKU BTRCUP-NGTC5TC7-01
Can be used to replace a TC7x series battery charger cup on five-slot ShareCradles when upgrading to TC73 /

TC78.

Power supply, cables, and adaptors

Power supply and cable matrix

SKU#	Description	Note
PWR-BGA12V108W0WW	Level VI AC/DC power supply brick. AC Input: 100–240V, 2.8A. DC Output: 12V, 9A, 108W.	Included in: • CRD-NGTC7-5SC5D
CBL-DC-381A1-01	DC line cord for running multi-slot cradles from a single Level VI power supply.	• CRD-NGTC7-5SE5D • CRD-NGTC7-5SC4B
PWR-BGA12V50W0WW	Level VI AC/DC power supply brick. AC Input: 100-240V, 2.4A. DC Output: 12V, 4.16A, 50W.	Included in: • CRD-NGTC7-2SC1B
CBL-DC-388A1-01	DC line cord for running single-slot cradles or battery chargers from a single Level VI power supply.	• CRD-NGTC7-2SE1B Sold separately. Use for SAC-NGTC5TC7-4SCHG.
CBL-TC5X-USBC2A-01	USB C to USB A communications and charging cable, 1m long	**Sold separately. Use to:** • Directly charge TC73 / TC78 using a wall wart. • Connect TC73 / TC78 to a computer (developer tools). • Charge TC73 / TC78 in a vehicle (can be used with cigarette light adapter SKU# CHG-AUTO-USB1- 01, if needed).
CBL-TC2Y-USBC90A-01	USB C to USB A cable with 90º bend in USB-C adapter	

25-124330-01R	Micro USB active-sync cable. Allows for active-sync connectivity between the mobile computer's single- or two-slot cradle and a host device.	**Sold separately.** Required for use with SKU# CRD- NGTC7-2SE1B if syncing with a computer is desired while TC73 / TC 78 is in the charger.
CBL-DC-523A1-01	DC Y-line cord for running two spare battery chargers to a single Level VI power supply SKU# PWR-BGA12V108W0WW.	**Sold separately. Use to:** Consolidate power supplies for multiple spare battery chargers proximally placed to each other.
PWR-WUA5V12W0XX	USB type A power supply adaptor (wall wart). Replace 'XX' in SKU as follows to get the right plug style based on region : **US** (United States) • **GB** (United Kingdom) • **EU** (European Union) **AU** (Australia) • **CN** (China) • IN (India) • **KR** (Korea) • **BR** (Brazil)	**Sold separately.** Use a communications & charge cable to directly charge the TC73 / TC78 device drawing power from a wall socket.

Power supply, cables, and adaptors
Country-specific AC line cords: grounded, 3-prong

SKU#	Country / region	Note	
23844-00-00R	North America (United States, Canada, Mexico)	7.5 feet long Commonly used with chargers mounted in server racks	
50-16000-678R	North America (United States, Canada, Mexico)	3 feet long	
50-16000-221R	North America (United States, Canada, Mexico)	6 feet long	
50-16000-727R	Brazil	1.8 meters (6 feet) long	
50-16000-680R	Argentina	1.8 meters (6 feet) long	
50-16000-217R	American Samoa, Australia, New Guinea	1.8 meters (6 feet) long	
50-16000-218R	Japan	1.8 meters (6 feet) long	
50-16000-219R	Antigua, Bermuda, Burma, Channel Islands, Hong Kong, Iraq, Ireland, Malaysia, North Ireland, Scotland, Singapore, United Kingdom, Wales	1.8 meters (6 feet) long	
50-16000-257R	China	1.8 meters (6 feet) long	
50-16000-220R	Europe, Abu Dhabi, Bolivia, Dubai, Egypt, Iran, Korea, Russia, Vietnam	1.8 meters (6 feet) long	
50-16000-671R	Italy	1.8 meters (6 feet) long	
50-16000-669R	India, S. Africa, Africa	1.8 meters (6 feet) long	

Power supply, cables, and adaptors

Country-specific AC line cords: ungrounded, 2-prong

SKU#	Country / region	Note	
50-16000-182R	United States	Type A NEMA 1-15 plug	
50-16000-255R	Europe, Abu Dhabi, Bolivia, Dubai, Egypt, Iran, Korea, Russia, Vietnam.	Type C CEE7/16 plug	
50-16000-670R	Bermuda, England, Hong Kong, Iraq, Ireland, Malaysia, North Ireland, Scotland, Singapore, United Kingdom, Wales		
25-124330-01R	Cradle to USB cable Single slot cradle to PC/host USB cable. • Used with single-slot cradle. • Micro-USB connection on cradle end		

Vehicle Cradles and Accessories

Wireless charger for use in vehicles

SKU# CRD-TC78-WCVC-01
TC78 Wireless charger for vehicles.

Compatibility	
TC73	No
TC78	Yes

- Can be mounted using four AMPS-pattern holes.
- Includes a holder for a stylus that can be installed either to the left or right of the device in a cradle or removed.
- Requires: TC78 device with wireless battery SKU# BTRY-NGTC5TC7-44MAWC-01. All are sold separately.
- For power and mounting options: see Vehicle Holders and Mounts listed later in this document.

Vehicle holder

SKU# CRD-TC7NG-NCCD-01
Non-powered vehicle holder.

Compatibility	
TC73	Yes
TC78	Yes

- Holds device in vehicle installations.
- The spring tension oholderhoder so does not support the Pistol Grip Handle.
- Compatible with B and C size RAM® 2-hole diamond bases.
- Provides access to USB-C port on the bottom of the device allowing the device to be charged.
- Available for mounting using SKU# RAM-B-166U.

NOTE

- For mounting options and non-powered vehicle holders, please see the section titled, "Vehicle Holders and Mounts", in this document.
- For charging cables that can be used with vehicle holders, please see the section titled, "Power Supply, Cables, and Adaptors", in this document.

Accessories that enable productivity solutions

Vehicle holders and mounts

Cigarette lighter adapter plug

SKU# CHG-AUTO-USB1-01
USB cigarette lighter adapter plug.

- Used with USB Type C Cable SKU# CBL-TC5X-USBC2A-01 to charge the device.
- Includes two USB TyType-Aorts providing higher current (5V, 2.5A) for faster charging.

Vehicle mounting hardware

SKU# RAM-B-166U
Vehicle cradle windshield suction cup mount.

- RAM twist lock suction cup with double socket arm and diamond base adapter.
- Overall length: 6.75″.
- Attaches to the back of vehicle cradles.

Vehicle mounting hardware

SKU# RAM-B-238U
Vehicle cradle RAM mount ball.

- RAM 2.43″ x 1.31″ diamond ball base w/ 1″ ball.
- Attaches to the back of vehicle cradles.

Headsets

Close gaps and open possibilities with Workforce Connect
Usher in a new era of transformation—one led by your frontline and powered by Zebra Workforce Connect. One where communication and information flow freely and gaps between teams, workflows and data are closed. With Workforce Connect, hindered workers become effective problem solvers, contributing their best. Critical workflows are streamlined in one place, on one device, equipping workers with the information they need, right at their fingertips. Only Zebra offers the most complete lineup of software and rugged hardware with the scalability, support and service needed to make the greatest impact where it counts—on the frontline.

Learn more about how you can elevate your frontline workers with Zebra Workforce Connect.

Wired headset for Workforce Connect

SKU# HDST-USBC-PTT1-01
PTT headset with USB-C connector; one-piece solution.

Compatibility	
TC73	Yes
TC78	Yes

- For Push-To-Talk (PTT) applications with volume up/volume down/PTT buttons. Compatible with PTT Express/PTT Pro.
- Rotating earpiece allows for right or left ear configuration. Mono headset with microphone.
- Includes clip for attaching PTT button to clothing.

SKU# HDST-35MM-PTVP-02
PTT and VoIP headset with 3.5mm locking jack.

Compatibility	
TC73	Yes
TC78	Yes

- For Push-To-Talk (PTT) and VoIP telephony. Compatible with PTT Express/PTT Pro.
- Built-in cord wrap with a rotating earpiece allows for right or left ear configuration. Mono headset with microphone.
- Includes clip for attaching PTT button to clothing.
- Sold separately: Requires USB-C to 3.5mm adapter cable SKU# ADP-USBC-35MM1-01

SKU# ADP-USBC-35MM1-01
USB-C to 3.5mm Adapter Cable

Compatibility	
TC73	Yes
TC78	Yes

- Allows headsets with 3.5mm jack to be connected to TC73/TC78
- The adapter provides PTT buttons, and volume up/down buttons.
- The adapter cable length is about 2.5ft. (78cm).
- PTT button functionality tested with SKU# HDST-35MM-PTVP-02. Both the PTT button, the headset, and the adapter may be used.
- Other headsets with a PTT button not listed may not work properly and their PTT button will not be detected.
- Requires SKU# HDST-35MM-PTVP-02

Rugged Bluetooth HD voice headsets for the most demanding industrial environments
When it comes to enabling speech-driven applications and voice communications in warehouses, manufacturing plants and outdoor yards, you need a headset that is specially designed for the job. The HS3100 Bluetooth headset is loaded with features that offer everything you need in an industrial headset.

Learn more about how these headsets deliver a superior voice experience.

Wireless headsets for voice-directed picking

HS3100 rugged Bluetooth headset
Bluetooth headset for voice-directed picking applications.

- Noise cancellation tuned for Voice-Directed Picking applications.
- Swap batteries on the fly —without losing the Bluetooth connection.
- Split-second tap-to-pair simplicity using NFC. 15 hours of battery power.

SKU#	Description
HS3100-OTH	HS3100 Rugged Wired Headset Over-The-Head Headband includes HS3100 Boom Module and HSX100 OTH Headband Module
HS3100-BTN-L	HS3100 Rugged Wired Headset (Behind-the-neck headband left)
HS3100-OTH-SB	HS3100 Rugged Wired Headset (Over-the-head headband) includes HS3100 Shortened Boom Module and HSX100 OTH headband module
HS3100-BTN-SB	HS3100 Rugged Wired Headset (Behind-the-neck headband left) includes HS3100 Shortened Boom Module and HSX100 BTN headband module
HS3100-SBOOM-01	HS3100 Shortened Boom Module (includes microphone boom, battery and windscreen)

Wearable mounts and other accessories

Hand straps

SKU# SG-NGTC5TC7-HDSTP-03
Hand strap –Pack of Allthe ows device to be easily held in the hand.

- Attaches directly to the device
- Includes loop for holding the optional stylus.

Stylus

SKU# SG-STYLUS-TCX-MTL-03
Fiber-tipped stylus –pack of 3.

- Heavy-duty and made from stainless steel/brass. No plastic parts —real pen feel. Can be used in rain.
- Micro-knit, hybrid-mesh, fiber tip provides silent, smooth gliding use. 5″ length.
- Big improvement over rubber-tipped or plastic-tipped stylus.
- Compatible with all capacitive touchscreen devices.
- Tether to the device or hand strap using SKU# SG-TC5NGTC7NG-TETHR-03.

Stylus tether

SKU# SG-TC5NGTC7NG-TETHR-03
Stylus tether.

- Can be attached to the device tower bar.
- When the hand strap is used, the tether should attach to the hand strap SKU# SG-NGTC5TC7-HDSTP-03 directly (not to the terminal towel bar).
- String type tether prevents loss of stylus.
- NOTE: Other Zebra coiled tethers are not recommended for use with TC73/TC78 as they may interfere with other accessories.

Trigger handles and accessories

Electronic trigger handle

SKU# TRG-NGTC7-ELEC-01
Pistol-grip trigger handle.

- Uses electrical trigger via contacts on back side of TC73/TC78.
- Trigger handle accessory offers customers the option of using the product in a gun form factor, ideal for scan-intensive situations.
- Does not block access to rear facing camera and flash allowing camera to be used while using the trigger handle.
- Compatible with both standard and extended capacity batteries.
- Sold separately: Optional wrist strap SKU# SG-PD40-WLD1-01.

Trigger handle wrist strap

SKU# SG-PD40-WLD1-01
Looping wrist strap for trigger handle.

- Attaches to bottom of pistol-grip trigger handle.

Accessories that protect devices

Soft holsters, and screen protectors

Soft holster

SKU# SG-NGTC5TC7-HLSTR-01
Soft holster.

- Vertical orientation with open bucket design to accommodate TC73 / TC78 pistol-grip trigger handle, and/or hand strap.
- Strap on rear of holster allows adjustment for use with the accessory options mentioned above.

- Includes loop for storage of optional stylus. Nonrotating for maximum durability.
- Holster is leather material and includes cut-out for speaker output.
- Also compatible with trigger handle SKU# TRG-NGTC7-ELEC-01.

Screen protectors

SKU# SG-NGTC7-SCRNP-03
Screen protector –pack of 3.

- Tempered glass.
- Includes alcohol wipes, cleaning cloth, and instructions needed for screen protector installation.

Third-Party Accessories for TC73 and TC78

Note:
Products sold that do not bear the Zebra brand name are serviced and supported exclusively by their manufacturers in accordance with terms and conditions packaged with the products. Zebra's Limited Warranty does not apply to products that are not Zebra branded, even if packaged or sold with Zebra products. Please contact the manufacturer directly for technical support and customer service.

Wired charger for use in vehicles

Compatibility	
TC73	Yes
TC78	Yes

SKU# 3PTY-RAM-HOL-ZE17-1U

Non-locking powered vehicle charger with pogo pins.

- Ruggedized pogo pin contacts for device charging.
- 1.25m long DC barrel connector cable.
- Compatible with B and C size RAM® 2-hole diamond bases.
- Sold separately: Power Cables SKU# 3PTY-RAM-GDS-CHARGE-M55-V8BU or SKU# 3PTY-RAM-GDS-CHARGE-M55-V7B1U, and mount SKU# RAM-B-166U.
- Also available as a locking-version — SKU# 3PTY-RAM-HOL-ZE17L-1U.

Vehicle Holder

SKU# 3PTY-RAM-HOL-ZE17-NP-1U
Passive vehicle holder with form-fit to TC73/TC78.

Compatibility	
TC73	Yes
TC78	Yes

- Spring-loaded holder design
- Compatible with B and C size RAM®2-hole diamond bases.
- Sold separately: Car/truck mount SKU# RAM-B-166U.
- Also available as a locking-version—SKU#3PTY-RAM-HOL-ZE17L-NP-1U.

Vehicle mounting hardware –Heavy Duty Mount for Forklifts

SKU# 3PTY-RAM-102U-B-247
RAM®Mounts forklift/vehicle clamp mount for square post mounting and devices up to 4 pounds.

- Clamping base ideal for square posts on forklifts ranging from 1.75″ -4″ in width; removable ball allows for upgrading to different mount sizes
- Includes modular socket arm to adjust the viewing angle of the device
- 2-hole diamond base adapter for attaching to RAM®TC73/78 vehicle docks.

Vehicle mounting hardware —Light Duty Mount for Static Applications

SKU# 3PTY-RAM-B-102U-247
RAM®Mounts static clamp mount for square post mounting and devices up to 2 pounds.

- Clamping base ideal for square posts on forklifts ranging from 1.75″ -4″ in width; removable ball allows for upgrading to larger mount sizes
- Includes modular socket arm to adjust the viewing angle of the device
- 2-hole diamond base adapter for attaching to RAM®TC73/78 vehicle docks.

ZEBRA TC73/TC78

PROCLIP CRADLES PROVIDE

- Easy one-handed docking and undocking
- Tilt-swivel gives users an optimized viewing angle
- Channeled sidewalls guide the device into the cradle and hold the device securely
- Heavy-duty construction provides protection and longevity
- Custom design to fit the device with or without the rugged boot

ZEBRA TC73/TC78

PART #	DESCRIPTION
3PTY-PCLIP-712310	Charging Cradle with Cigarette Lighter Adapter Modular Backplate

PART #	DESCRIPTION
3PTY-PCLIP-713310	Charging Cradle with Hard-Wired Power Supply and Modular Backplate

PART #	DESCRIPTION
3PTY-PCLIP-712354	Charging Cradle with Top Support, Tilt Swivel and Cigarette Lighter Adapter

Forklift/Vehicle Cradle Clamp Mount – for square frame mounting

PART #	DESCRIPTION
3PTY-PCLIP-241478	• Clamp is 5.125" x 3.75" and can accommodate bars of varying thicknesses. Attaches to square bars of vehicles/forklifts. • 6" long arm on clamp uses AMPS hole pattern for mounting ProClip cradles like SKU# 3PTY-PCLIP-241475.

ADDITIONAL MOUNTING OPTIONS

Documents / Resources

ZEBRA TC78 Mobile Computers [pdf] User Guide
TC78 Mobile Computers, TC78, Mobile Computers, Computers

References

- **User Manual**