Toshiba TCx Displays

Making retail smarter starts with innovative Toshiba touchscreens at the point-of-sale

TOGETHER
COMMERCE
™

For the consumer ... fast, accurate checkouts and visibility to services

The ubiquity of the worldwide web and the pervasiveness of mobile handsets, netbooks and laptop PCs give consumers near limitless access to on-demand products, information and services. For retailers focused on strengthening customer advocacy, checkout speed, accuracy and a personalized shopping experience, it is no longer a differentiator to open new channels of communications with customers, it is a business imperative.

Create advocates by elevating the customer shopping experience

The TCx Displays flat-panel touch products give retailers a simple, yet innovative way to create a unique and distinctive experience for customers. Touchscreens help associates minimize wait time with speedy, accurate checkouts. When customer-facing displays are present for shoppers, they can scroll through receipts, access loyalty account information and respond to store promotions. Touch displays can also introduce new services at the point-of-sale, including third-party offers that help generate incremental revenue—all while making your store a favorite place to shop.

Highlights

- Environmentally friendly LED backlight technology

- Unintentional touch rejection for enhanced usability

- Deep sleep enabled with Toshiba Remote Management Agent

- Easily attaches and detaches I/O for improved serviceability

- Embedded diagnostics promote display life

- Flashable firmware updates

TOSHIBA
Leading Innovation >>>

For the employee ... less training time, less stress

The Toshiba TCx Display touch technology is engineered for optimum usability for store associates. Touchscreens dramatically reduce training time, enhancing the associate's confidence and productivity.

Speed employee training and increase accuracy, employing intuitive touch interfaces

Robust projected capacitance (PCap) and infrared (IR) touchscreens never need recalibrating and they offer the most flexibility for various input devices—from a bare finger or stylus to a credit card or gloved hands—speeding transactions. Glare-proof tempered glass and unique unintentional touch rejection maximize usability. In addition, tactile and auditory feedback during transactions—including a forward-facing speaker kit—help associates avoid unnecessary errors.

For the retailer ... a smarter business

Retailers who deploy Toshiba TCx Display touchscreens at check-out can begin seeing an immediate return on their investment. Touch displays promote significantly faster throughput that can potentially reduce the number of checkout lanes open and the number of cashiers required at the front end.

Deliver quick return on investment, streamlining operations, controlling costs and managing risk.

While the innovative Toshiba TCx Displays helps improve employee productivity and positively impact customer loyalty, it also enables retailers to operate smarter and realize a fast return on investment. For example, flashable firmware and security updates help reduce service and staffing costs. Built-in diagnostic tools monitor each display's health with critical information such as bulb life, brightness settings and power-on hours, maximizing the usable life. Peripherals can be attached and removed easily without disassembling the display, simplifying future upgrades.

The latest Toshiba TCx Displays help retailers demonstrate their environmental commitment and build a sustainable business. More energy efficient than ever before, new displays support ultra-low power deep sleep automation and feature LED backlight technology free from harmful chemicals.[1] The retail-hardened design ensures long service life even under the most extreme conditions. In addition, displays are constructed from recycled materials and packaging is made from 100 percent recycled post-consumer waste to help reduce the cost and environmental impact of end-of-life disposal.

Trust Toshiba's retail experience

As the world's leading provider of integrated in-store solutions and retail insights, Toshiba Global Commerce Solutions delivers end-to-end solutions for checkout, consumer interactions and retail operations that unlock amazing new possibilities for retailers and shoppers everywhere. In partnership with the Together Commerce Alliance, our global business partner program, we help bring innovation and value to every retailing experience so that you can delight your customers every day, everywhere.

Product Overview

1. Intuitive, infrared touch display
2. High-contrast ratio, minimal glare and wide-angle viewing
3. High brightness, active-matrix display supports full motion video for better viewing
4. Convenient infrared technology interaction accepts various modes of input
5. Energy-efficient design offers low power consumption
6. Supports deep sleep on Toshiba SurePOS units
7. Direct attachment by USB to I/O and POS
8. Forward-facing speaker kit
9. Spill resistant retail hardened construction

10. Integrates with various optional peripherals for a unified appearance (magnetic strip readers, keypads, key locks and speakers
11. 32-key programmable keypad for rapid data entry (optional)
12. A choice of 12-inch or 15-inch display
13. Wide tilt range for ergonomically correct viewing
14. Multiple mounting options for versatile placement options
15. 180-degree rotational range enables use by cashier and/or customer
16. Stable mount fixtures offer a steady screen display
17. Available in pearl white or iron gray to match existing POS hardware

Toshiba TCx Displays 4820 – Single-Touch Display Technical Requirements

Model Number - Touch	4820 - 2LW	4820 - 2LG	4820 - 5LW	4820 - 5LG
Screen Size	12.1"	12.1"	15"	15"
Resolution	800 × 600	800 × 600	1024 × 768	1024 × 768
Model Color	Pearl White	Iron Gray	Pearl White	Iron Gray
Backlit bulb	LED backlight	LED backlight	LED backlight	LED backlight
Power requirements	18 W max (20 W w/ brick), 15 W typical	18 W max (20 W w/ brick), 15 W typical	18 W max (20 W w/ brick), 15 W typical	18 W max (20 W w/ brick), 15 W typical
Energy consumption efficiency*	N/A			
Connectivity				
Video interface	Analog			
Touch interface	Powered USB, standard USB			
Optional mounting features				
Mounting stands	Integrated mounting stands: Toshiba SurePOS 700, Toshiba SurePOS 500 (second display) Weighted distributed base VESA-compliant adapter			
Optional I/O devices				
Magnetic Stripe Reader (MSR) w/Keylock	Three track MSR 2-position programmable lock (up to 4-position available as option)			
Keypad w/MSR and Keylock	32-key programmable keypad with three track MSR 2-position programmable lock (up to 4-position available as option)			
Speaker Kit	Forward-facing speaker assembly			
Physical dimensions and weight				
Maximum dimensions (W×D×H)	12 inch: 12.12 × 2.2 × 10.43 (308 × 56 × 265 mm) 15 inch: 14.13 × 2.2 × 11.87 (359 × 56 × 301.5 mm)			
MSR	7.68 × 1.49 × 2.87 (195.5 × 38 × 73 mm)			
MSR and Keypad	8.27 × 2.09 × 5.31 (210 × 53 × 135 mm)			
Weight	12 inch: 5.51 lbs (2.5 kg) 15 inch: 7.37 lbs (3.35 kg)			
Software				
Operating Systems supported†	Toshiba 4690 OS V5.2, or higher** Microsoft Windows Embedded for Point of Service Microsoft Windows Embedded POSReady 2009 Microsoft Windows XP Pro SP2, SP3 Microsoft Windows 7			
Drivers supported	OPOS 1.13 or later Java POS 1.13 or later			
Warranty Service‡	One year depot or on-site service			
Technical support§	24×7 phone support (during warranty period) and web-based help			

Product Overview

- Cutting-edge, multi-touch projected capacitance display
- Bezel-less design offers sleek contemporary look and greater screen real estate, in a smaller form factor
- High-contrast ratio, minimal glare and wide-angle viewing
- High brightness for improved viewing in a wider range of environments, especially outdoors
- Active-matrix display supports full motion video for better viewing
- Projected capacitance technology can be used with gloved fingers in food service
- Energy-efficient design offers low power consumption and reduced TCO
- Supports deep sleep on Toshiba SurePOS systems
- Direct USB attachment to I/O and POS systems

- Standard integrated USB speakers
- Spill resistant retail hardened construction
- Optional integrated peripherals maintain sleek design (magnetic strip readers, iButton)
- 15.6-inch display with 16:9 widescreen format
- DisplayPort and VGA connectivity
- Wide tilt range accommodates for ergonomically correct viewing
- Multiple mounting options for versatile placement and integration options
- 180-degree rotation allows cashier to share information with customer
- Stable mount enables accurate multi-touch and gesture motions
- Available in Raven Black to match Toshiba POS hardware

Toshiba TCx Displays 6149 – Multi-Touch Display Technical Requirements

Model Number - Touch	6149 – 5CR	6149 – 5CD		
Screen Size	15.6"	15.6"		
Resolution	1366 x 768	1366 x 768		
Model Color	Raven Black	Raven Black		
Backlit bulb	LED backlight	LED backlight		
Power requirements	18 W max (20 W w/ brick), 15 W typical	18 W max (20 W w/ brick), 15 W typical		

Toshiba TCx Displays 6149 – Multi-Touch Display Technical Requirements

Energy consumption efficiency*	See table below
Connectivity	
Video interface	DisplayPort, VGA (analog)
Touch interface	Powered USB, standard USB
Optional mounting features	
Mounting stands	Integrated mounting stands: Toshiba SurePOS 700, Toshiba SurePOS 500 (second display) Weighted distributed base VESA-compliant adapter
Optional I/O devices	
Magnetic Stripe Reader (MSR)	Three track MSR
Keypad w/MSR	32-key programmable keypad with three track MSR
Audio	Integrated stereo speakers
Physical dimensions and weight	
Maximum dimensions (W×D×H)	15.6 inch: 15.72 × 2.24 × 10.3 (399.4 × 57 × 261.6 mm)
MSR	10.37 × 2.02 × 2.65 (263.4 × 51.4 × 67.3 mm)
Weight	15.6 inch: 8.55 lbs (3.88 kg)
Software	
Operating Systems supported[†]	Toshiba 4690 OS V6R4, with CSD #0E00 or higher** Microsoft Windows Embedded POSReady 2009 Microsoft Windows Embedded POSReady 7 (32-bit & 64-bit) Microsoft Windows 7 (32-bit & 64-bit) Microsoft Windows 8.1 (64-bit) SUSE Linux Enterprise Point of Service 11 SP3 (32-bit)
Drivers supported	UPOS 1.13.7 or later (includes OPOS & Java POS)
Warranty Service[‡]	One year depot or on-site service
Technical support[§]	24×7 phone support (during warranty period) and web-based help

Power Mode	Power Mode Description	Power @ 115V (watts)	Power @ 230V (watts)
Off	No video and USB touch transaction	0.85	0.92
On – Max brightness	Max brightness and Touch functional	17.02	17.4
On – Typical	Default brightness and Touch functional	14.87	15.03
Sleep – S3 suspend	Display off and USB Touch suspend	3.04	3.12
Energy Star_Off	No video transaction and no USB connection	0.37	0.42
Energy Star_on – Max brightness	Max brightness and no USB connection	15.38	15.62
Energy Star_On – Typical	Default brightness and no USB connection	13.18	13.29
Energy Star_Sleep – S3 suspend	Display off and no USB connection	0.38	0.43

TOSHIBA
Leading Innovation >>>

Together Commerce

Together Commerce is Toshiba's vision for the new future of retail where retailers adapt their strategies, their stores and their technology to engage with consumers throughout the buying process in a seamless and helpful way. This collaborative approach enables retailers and customers to create mutually rewarding commerce—together.

For more information

To learn more about how Toshiba TCx Displays can help transform your business, contact your local Toshiba sales representative or Toshiba Business Partner or visit: **toshibacommerce.com**

Additionally, Toshiba Global Commerce Solutions can help credit-qualified clients acquire the IT solutions that your business needs in the most cost-effective and strategic way possible through our global financing partner.

References

* The energy consumption efficiency is the value of the power consumption measured in accordance with the measuring method specified by the Japan energy saving law divided by the Composite Theoretical Performance specified by the energy saving law.

† An operating system is not included and can be purchased separately.

‡ For a copy of Toshiba's Statement of Limited Warranty, please contact your Toshiba representative or authorized reseller.

§ Technical support response times may vary.

** For deep sleep and wake on touch, 4690 OS V6.2 Enhanced with PTF (Program Temporary Fix) required. For MSR fields available in RMA 2.6 (Remote Management Agent), 4690 OS V6.2 (Classic or Enhanced) is required.

1 Deep sleep power state is defined as "suspend to RAM" (random access memory) (meaning the power supply is in a reduced power mode). The system appears off; the CPU has no power; RAM is in slow refresh.

Premier Business Partner
IBM