

# TCxWave

Today's retailers understand that sustainable success depends on delivering a consistent and differentiated brand experience throughout the customer journey. Nowhere is this more important than the place where the majority of transactions are still carried out: the store.

Retailers need point of sale (POS) technology that can support the versatility, style and functionality that a modern store environment demands. That can adapt easily to the changing demands of customers. That can bring new impact to the customer experience. And that can give timely, consistent service to consumers and staff throughout the shopping journey.

TCxWave by Toshiba is a new breed of retail system created to give retailers the freedom to use one platform for multiple purposes throughout the store. TCxWave has the flexibility, performance and distinctive design that global retailers have come to trust from the team that continues to produce the Number 1 store solutions in the industry.

## Giving point-of-sale pride of place

TCxWave by Toshiba delivers a unique and engaging experience for staff and customers that puts it in a class of its own. Fully functional as a point-of-sale, kiosk or self-service unit, the TCxWave can be positioned in the most logical and advantageous locations without fear of compromising the in-store experience. Developed by award-winning industrial designers, its striking appearance means retailers need no longer hide the POS away in the back of the store but can sit it proudly where it's needed most. Indeed, the sleek design of TCxWave means it can play a central role in delivering a consistent and positive brand image and experience throughout the whole store.

# TOGETHER COMMERCE

## Highlights

- Attractive design complements the brand experience
- Screen size choices, including standard and wider screen options, bring new interaction opportunities
- Versatile configuration enables a seamless brand look and customer experience
- Intuitive, quick-to-learn touch technology maximises staff productivity
- Retail-hardened design and robustness delivers reliability in mission-critical store environments

## Product Overview



### Distinctive design

- The stylish design of Toshiba's TCxWave is based on a distinctive profile that reflects the "thin is in" style of modern consumer electronics: TCxWave is our slimmest POS or kiosk ever.
- The multi-touch, gesture-based screen is as easy and familiar to use as a smartphone.
- The widescreen format – the widest format on the market – means staff and customers can see more and do more.
- The standard screen format is available for environments where space is at a premium.
- Human factor features include right/left-hand card-swiping and flexibility in possible viewing angles and heights.



Countertop configuration with optional stand.

Kiosk configuration landscape viewing



Multiple viewing angles and heights

### Unmatched versatility

- TCxWave can be deployed as a POS, self-service or kiosk.
- Its versatility protects the investment of retailers whose store environment may evolve over time.
- The unique design and functionality of Toshiba's TCxWave fit virtually every store setting.

### Reliable and robust

- TCxWave features the kind of retail-hardened design and durability you would expect from the world leader in in-store technology.
- Antiglare screen protection means top performance even in the most demanding environments.
- Solid-state drive options ensure dependable performance at the crucial point of transaction.



## Product Overview



Kiosk configuration portrait viewing



Optional MSR and/or customer display



Fingerprint Reader



Cable Management System



Selectable and upgradeable SurePorts enable retailers to use existing devices and connect customer or employee devices

## Specifications

TCxWave Technical Specifications	6140-A30, A3R, E30, E3R	6140-14C, E4C, 145, E45	6140-15C, E5C 6140-155, E55	6140-100,10D, E10, E1D, EP1, 120, 12D, E20, E2D, EP2
<b>Processor (clock speed, cache)</b>	Intel Celeron Quad Core J1900 (2 GHz, 2M)	Intel Celeron Dual Core 3955U (2GHz, 2M) – 6140-14C, E4C  Intel Core i5-6300U (Up to 3GHz, 3M) – 6140-145-E45	Intel Celeron Dual Core 3955U (2GHz, 2M) – 6140-15C, E5C  Intel Core i5-6300U (Up to 3GHz, 3M) – 6140-155, E55	Intel Celeron 847e (1.10 GHz, 2M) – 6140-100, 10D, E10, E1D, EP1  Intel Core i3-3217UE (3M Cache, 1.60 GHz) – 6140-120, 12D, E20, E2D, EP2
<b>BIOS</b>	AMI	AMI	AMI	AMI
<b>Memory*,†</b>	DDR3 1333 MHz 2 GB Standard 8 GB Max	DDR MHz 4 GB Standard 32 GB DDR4 Max	DDR MHz 4 GB Standard 32 GB DDR4 Max	DDR3 1066 MHz 2 GB Standard 8 GB Max
<b>Video</b>	Intel Integrated Graphics (DisplayPort output)	Intel Integrated Graphics Device (DisplayPort output)	Intel Integrated Graphics Device (DisplayPort output)	Intel Integrated Graphics Device (DisplayPort output)
<b>Touch</b>	Projected Capacitive Touch Technology 5 point multi-touch	Projected Capacitive Touch Technology 10 point multi-touch	Projected Capacitive Touch Technology 10 point multi-touch	Projected Capacitive Touch Technology 5 point multi-touch
<b>Screen</b>	15 in 4:3, LED back-lit LCD	15 in 4:3, LED back-lit LCD	18.5 in. 16:9 LED back-lit LCD	18.5 in. 16:9 LED back-lit LCD
<b>Audio</b>	Optional Speaker kit	Internal – Realtek ALC231 Optional Speaker kit available.	Internal – Realtek ALC231 Optional Speaker kit available.	Internal PC beeper†
<b>Storage</b>	Up to 2x M.2 Solid State Drives, available in 64 GB or 128 GB	Up to 2x M.2 Solid State Drives, available in 64 GB, 128 GB or 256 options	Up to 2x M.2 Solid State Drives, available in 64 GB, 128 GB or 256 options	(1) Solid State Drive, available in 64 GB or 128 GB option
<b>Ethernet</b>	10/100/1000 MB	10/100/1000 MB	10/100/1000 MB	10/100/1000 MB
<b>I/O Ports on Head</b>	(3) USB 2.0,(1) USB 3.0, (2x) RJ45 RS232*, (1) DisplayPort, (1) 10/100/1000 Ethernet, Side access ports: (1) Audio Jack, (1) USB 2.0 with I/O mount point  *BIOS can configure RS232 as powered or standard	(2) USB 2.0,(1) USB 3.0, (2x) RJ45 RS232*, (1) DisplayPort, (1) 10/100/1000 Ethernet, (1) 12V powered USB (1) 24v powered USB Side access ports: (1) Audio Jack, (1) USB 2.0 with I/O mount point  *BIOS can configure RS232 as powered or standard	(2) USB 2.0,(1) USB 3.0, (2x) RJ45 RS232*, (1) DisplayPort, (1) 10/100/1000 Ethernet, (1) 12V powered USB (1) 24v powered USB Side access ports: (1) Audio Jack, (1) USB 2.0 with I/O mount point  *BIOS can configure RS232 as powered or standard	3) PC USB 2.0, (1) 10/100/1000 Ethernet, (1) DisplayPort, Side access port: (1) PC USB 2.0
<b>I/O Ports on Dockable Base</b>	(1) 24 V Powered USB 2.0, (3) 12 V Powered USB 2.0, (3) PC USB 2.0, (1) 10/100/1000 Ethernet, (1) DisplayPort	(1) 24 V Powered USB 2.0, (3) 12 V Powered USB 2.0, (3) PC USB 2.0, (1) 10/100/1000 Ethernet, (1) DisplayPort	(1) 24 V Powered USB 2.0, (3) 12 V Powered USB 2.0, (3) PC USB 2.0, (1) 10/100/1000 Ethernet, (1) DisplayPort	(1) 24 V Powered USB 2.0, (3) 12 V Powered USB 2.0, (3) PC USB 2.0, (1) 10/100/1000 Ethernet, (1) DisplayPort
<b>I/O Ports on optional POS Hub</b>	(1) 24 V Powered USB 2.0, (1) 24 V Cash Drawer Port, (4) 12 V Powered USB 2.0	(1) 24 V Powered USB 2.0, (1) 24 V Cash Drawer Port, (4) 12 V Powered USB 2.0	(1) 24 V Powered USB 2.0, (1) 24 V Cash Drawer Port, (4) 12 V Powered USB 2.0	(1) 24 V Powered USB 2.0, (1) 24 V Cash Drawer Port, (4) 12 V Powered USB 2.0
<b>Optional integrated I/O</b>	Fingerprint reader or iButton reader (one of these devices can plug into side USB I/O mount point) 2x20*, MSR*  *Additional USB 2.0 port included on module if one or both of these options selected	Fingerprint reader or iButton reader (one of these devices can plug into side USB I/O mount point) 2x20*, MSR*  *Additional USB 2.0 port included on module if one or both of these options selected	Fingerprint reader or iButton reader (one of these devices can plug into side USB I/O mount point) 2x20*, MSR*  *Additional USB 2.0 port included on module if one or both of these options selected	2x20*, MSR*  *Additional USB 2.0 port included on module if one or both of these options selected

## Product Overview

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<b>Trusted Platform Module (TPM)</b>	No	TPM 2.0 Rev 01.16 vPro capability on x45 models	TPM 2.0 Rev 01.16 vPro capability on x55 models	This system contains a TPM module. The function of the module is only for the safe storage of the data that is needed for authentication and protection against unauthorised access. Algorithms are: AES, symmetric, key length 128 bit, and RSA, key length 512-2048 bit
<b>Supported Operating Systems</b>	Windows Embedded POSReady 7 (64-bit and 32-bit) Windows Embedded 8.1 Industry Pro Retail (64-bit) Windows 7 Professional (64-bit and 32-bit) Windows 8.1 Professional (64-bit) Windows 10 (64-bit) Windows 10 IoT Enterprise 2015 LTSB for Retail (64-bit) SUSE LINUX Enterprise Desktop 11 for x86 Service Pack 3	Windows Embedded POSReady 7 (64-bit and 32-bit) Windows Embedded 8.1 Industry Pro Retail (64-bit) Windows 7 Professional (64-bit and 32-bit) Windows 8.1 Professional (64-bit) Windows 10 (64-bit) Windows 10 IoT Enterprise 2015 LTSB for Retail (64-bit)	Windows Embedded POSReady 7 (64-bit and 32-bit) Windows Embedded 8.1 Industry Pro Retail 64-bit Windows 7 Professional (64-bit and 32-bit) Windows 8.1 Professional 64-bit Windows 10 (64-bit) Windows 10 IoT Enterprise 2015 LTSB (64-bit) for Retail	Windows 7 (64-bit and 32-bit), POSReady 7, POSReady 2009, 4690 Version 6.4 Enhanced Windows Embedded 8.1 Industry Pro Retail 64-bit Windows 8.1 Professional 64-bit Windows 8.1 Pro 64-bit SUSE® LINUX Enterprise Desktop 11 for x86 Service Pack 3 for SUSE® SLED 11
<b>Preloads</b>	Microsoft preloaded on E30, E3R Choice of POSReady 7, Windows 7, or Windows 10 IoT Enterprise 2015 LTSG for Retail (Image provided is 64-bit)	Microsoft preloaded on E4C, E45 Windows® 10 IoT Enterprise 2015 LTSB for Retail or Thin Clients (64-bit only)	Microsoft preloaded on E5C, E55 Windows® 10 IoT Enterprise 2015 LTSB for Retail or Thin Clients (64-bit only)	Microsoft preloaded on E10, E1D, EP1 Choice of 32-bit POSReady 2009, POSReady 7, or Windows 7
<b>Warranty</b>	For warranty terms and country coverage please refer to the Statement of Limited Warranty at: <a href="http://www.toshibacommerce.com/support/limitedwarranty">http://www.toshibacommerce.com/support/limitedwarranty</a>			

Models	TCxWave Dimensions	Height	Width	Depth	Weight
<b>A3x, E3x</b>	POS System (head mounted on base)	332.6 mm (13.10 in.)	367 mm (14.4 in.)	305 mm (12 in.)	9 kg (20 lbs)
	Head	337 mm (13.25 in.)	367 mm (14.4 in.)	76 mm (3 in.)	5 kg (11 lbs)
	Dockable POS Base	191 mm (7.5 in.)	367 mm (14.4 in.)	292 mm (11.5 in.)	4 kg
<b>10x, E1x, 12x, E2x, EP2</b>	POS System (head mounted on base)	Head rotated fully forward 336.7mm (13.26 in.) Head rotated fully back 332.6 mm (13.10 in.)	470 mm (18.5 in.)	305 mm (12 in.)	10.4 kg
	Head	337 mm (13.25 in.)	470 mm (18.5 in.)	76 mm (3 in.)	6.4 kg
	Dockable POS Base	191 mm (7.5 in.)	470 mm (18.5 in.)	292 mm (11.5 in.)	4 kg
<b>All</b>	POS Hub	78 mm (3.073 in.)	185 mm (7.289 in.)	205 mm (8.077 in.)	2.72 kg (6 lbs)



Please Recycle

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## Together Commerce

TCxWave is a key focus for Toshiba's Together Commerce vision. Together Commerce brings every possible pathway of the retail journey together, enabling customers to engage with retailers on their own terms. This fundamental shift eliminates the need to control every customer action, favouring instead a collaborative approach in which retailers and customers create mutually rewarding commerce – together.

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## Why Toshiba?

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 our clients and shoppers everywhere. In partnership with the Together Commerce Alliance, our global business partner programme, we help bring innovation and value to every retailing experience so that you can delight your customers every day, everywhere.

## For more information

To see how TCxWave can transform your stores and give point-of-sale new pride of place, please visit: [toshibacommerce.com](http://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

\* MHz/GHz only measures microprocessor internal clock speed; many factors affect applications' performance.

† MB/GB equals one million/billion bytes when referring to storage capacity; accessibility may be less

‡ USB attached speaker needed for external audio. Support targeted for second half of 2014

§ US only