

# TCxWAVE™ SPECIFICATIONS

FEATURE	BENEFITS
Smart design	Appeals to consumer impression of the brand
Intel 6th Generations Technology	Choose a range of processing power from Celeron up to Core i5 to handle the latest POS applications
vPro capability	Improve systems management with vPro out of band management. (xx5 models only)
Multi-touch	<ul style="list-style-type: none"> <li>&gt; Simplifies customer and associate interaction through intuitive touch technology that promotes operational efficiency and drives customer satisfaction and sales</li> <li>&gt; Standard 5 point Multi-touch, select models now available with 10 point Multi-touch</li> </ul>
Screen size choices	15" 4:3 for when space is tight and changes limited 18": 16:9 for better visibility- enhanced larger screen makes the shopping process easy
Multiple functionality options	<ul style="list-style-type: none"> <li>&gt; Create seamless store technology design and experience</li> <li>&gt; Cable management provided with VESA cover for seamless cabling when installed on table top stand, wall, or custom pole mount</li> </ul>
Choice of configurations	Promotes flexible store placement and use
Versatile large format screen	Easy to see/use for customers; efficient for associates accessing multiple side by side applications
Retail-hardened	Rigorously tested, durable system and technology
Antiglare screen	Glare protection for interactive uses by associate and consumer designed for the retail environment
iButton option	Unique magnetic image per key improves security
Biotmetric option	Fingerprint reader for improved operator security
Solid-State Drive	Added reliability and performance with M.2 technology offered in a range of capacities

TCxWAVE™ TECHNICAL SPECIFICATIONS	6140-A30, A3R, E30, E3R	6140-14C, E4C, E145, E45	6140-15C, E5C 6140-155, E55	6140-100, 10D, E10, E1D, EP1, 120, 12D, E20, E2D, EP2
Processor (clock speed, cache)	Intel 4th Generation Processors: Intel Celeron Quad Core J1900 (2 GHz, 2M)	Intel 6th Generation Processors: Intel Celeron Dual Core 3955U (2GHz, 2M) – 6140-14C, E4C Intel Core i5-6300U (Up to 3GHz, 3M) – 6140-145-E45	Intel 6th Generation Processors: Intel Celeron Dual Core 3955U (2GHz, 2M) – 6140-15C, E5C Intel Core i5-6300U (Up to 3GHz, 3M) – 6140-155-E55	Intel 2nd & 3rd Generation Technology: Intel Celeron 847e (1.10GHz, 2M) - 6140-100, 10D, E10, E1D, EP1 Intel Core i3-3217UE (3M Cache, 1.60 GHz) - 6140-120, 12D, E20, E2D, EP2
Chipset	Intel J1900	Intel 6th Generation "U-Series" SOC	Intel 6th Generation "U-Series" SOC	Intel HM65PCH
BIOS	AMI	AMI	AMI	AMI
Memory*,†	DDR3 1333 MHz 2 GB Standard 8 GB Max	DDR4 1600 MHz 4 GB Standard 32GB DDR4 Max	DDR4 1600 MHz 4 GB Standard 32GB DDR4 Max	DDR3 1066 MHz 2 GB Standard 8 GB Max
Video	Intel Integrated Graphics (DisplayPort output)	Intel Integrated Graphics (DisplayPort output)	Intel Integrated Graphics (DisplayPort output)	Intel Integrated Graphics (DisplayPort output)
Touch	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
Screen	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
Audio	Optional Speaker kit	Internal - Realtek ALC231 Optional Speaker kit available	Internal - Realtek ALC231 Optional Speaker kit available	Internal PC beeper‡
Storage	Up to 2x 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
Ethernet	10/100/1000 MB	10/100/1000 MB	10/100/1000 MB	10/100/1000 MB
I/O Ports on Head	(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

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I/O Ports on Dockable Base	(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			
I/O Ports on optional POS Hub	(1) 24 V Powered USB 2.0, (1) 24 V Cash Drawer Port, (4) 12 V Powered USB 2.0			
Optional integrated I/O	Fingerprint Reader iButton Reader (NOTE: One of these devices may be attached using right side USB I/O mount point) 2x20 + USB Port Kit MSR + USB Port Kit 2x20 + MSR + USB Port Kit	Fingerprint Reader iButton Reader (NOTE: One of these devices may be attached using right side USB I/O mount point) 2x20 + USB Port Kit MSR + USB Port Kit 2x20 + MSR + USB Port Kit	Fingerprint Reader iButton Reader (NOTE: One of these devices may be attached using right side USB I/O mount point) 2x20 + USB Port Kit MSR + USB Port Kit 2x20 + MSR + USB Port Kit	Fingerprint Reader iButton Reader (NOTE: One of these devices may be attached using right side USB I/O mount point) 2x20 + USB Port Kit MSR + USB Port Kit 2x20 + MSR + USB Port Kit
Trusted Platform Module (TPM)	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 safe storage of the data that is needed for authentication and protection against unauthorized access. Algorithms are, AES, symmetric, key length 128 bit, and RSA, key length 512-2048 bit
Supported Operating Systems	Windows Embedded POSReady 7 (32/64bit) Windows Embedded 8.1 Industry Pro Retail (64-bit) Windows 7 Professional (32/64bit) 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 (32/64bit) Windows Embedded 8.1 Industry Pro Retail (64-bit) Windows 7 Professional (32/64bit) Windows 8.1 Professional (64-bit) Windows 10 (64-bit) Windows 10 IoT Enterprise 2015 LTSB (64-bit) Windows 10 IoT Enterprise 2016 LTSB (64-bit) SUSE LINUX Enterprise Desktop 11 for x86 Service Pack 3	Windows Embedded POSReady 7 (32/64bit) Windows Embedded 8.1 Industry Pro Retail (64-bit) Windows 7 Professional (32/64bit) Windows 8.1 Professional (64-bit) Windows 10 (64-bit) Windows 10 IoT Enterprise 2015 LTSB (64-bit) Windows 10 IoT Enterprise 2016 LTSB (64-bit) SUSE LINUX Enterprise Desktop 11 for x86 Service Pack 3	Windows Embedded POSReady 7 (32/64bit) Windows Embedded 8.1 Industry Pro Retail (64-bit) Windows 7 Professional (32/64bit) Windows 8.1 Professional (64-bit) SUSE LINUX Enterprise Desktop 11 for x86 Service Pack 3
Preloads	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

MODELS	CONFIGURATION	HEIGHT	WIDTH	DEPTH	WEIGHT
A3x, E3x, x4x	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 mounted on table top stand	393.7 mm (15.5 in.)	367 mm (14.4 in.)	Head vertical 254 mm (10 in) Head rotated fully back 305 mm (12 in)	
	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 (9 lbs)
10x, E1x, 12x, E2x, EP2, x5x	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 (23 lbs)
	Head	337 mm (13.25 in.)	470 mm (18.5 in.)	76 mm (3 in.)	6.4 kg (14 lbs)
	Dockable POS Base	191 mm (7.5 in.)	470 mm (18.5 in.)	292 mm (11.5 in.)	4 kg (9 lbs)
All	POS Hub	78 mm (3.073 in.)	185 mm (7.289 in.)	205 mm (8.077 in.)	2.72 kg (6 lbs)