



SYNERGY 2016
EXPERIENCE 2020

RealPOS Update

Gary Dalton
Director Retail / Hospitality POS

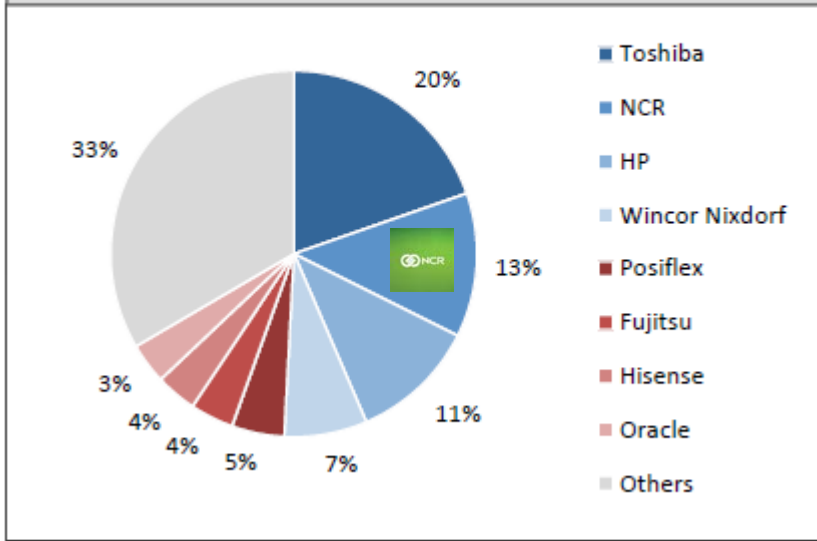


NCR Corporation: Disclaimer

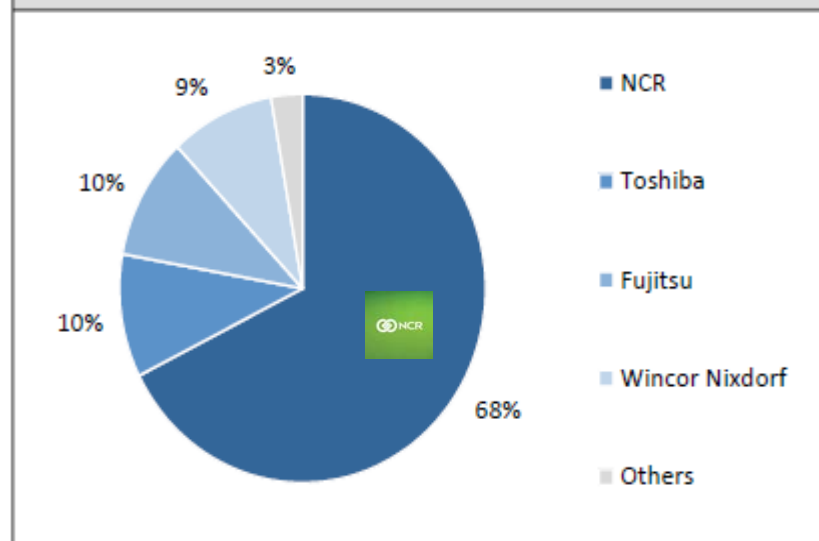
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Global Shipments 2015

Vendor Shares of Programmable EPOS Shipments, 2015

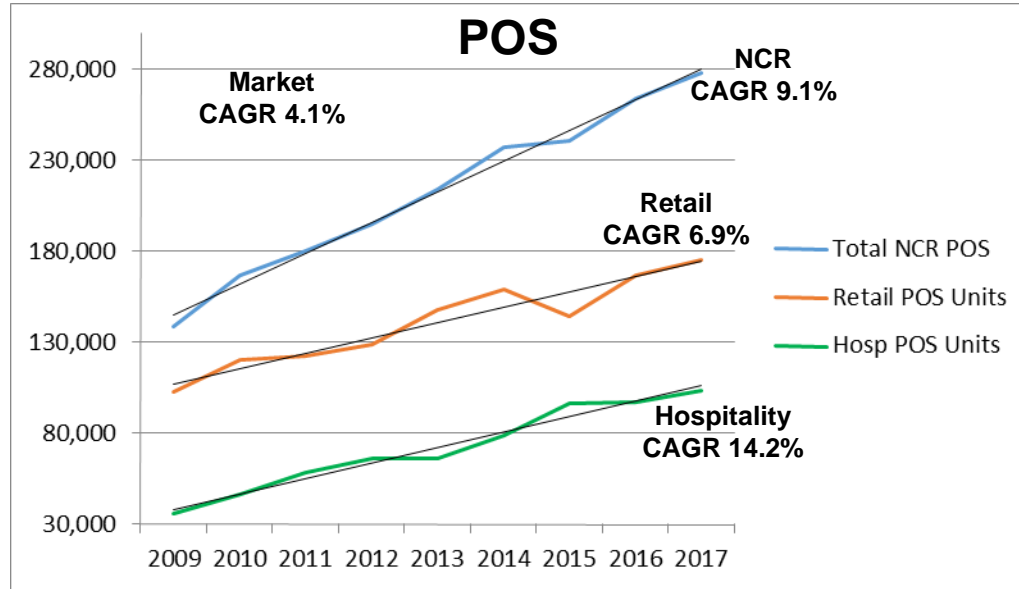


Vendor Shares of Self-Checkout Shipments, 2015



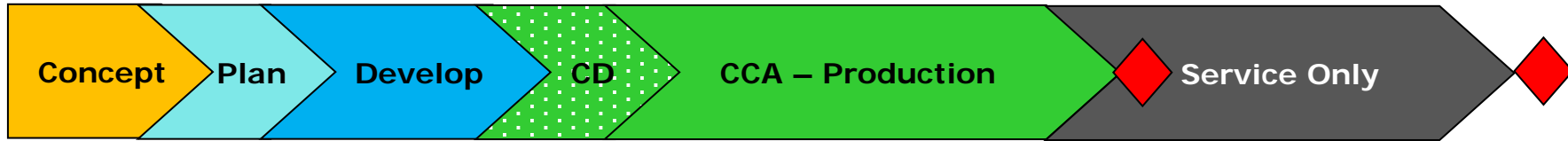
NCR POS #1 in NAMER, #2 Globally

Global POS Market 4.1% CAGR



NCR POS taking share

Managing Product Life Cycle



Products have owners from cradle to grave

Greg Egan
VP Hardware Engineering
Retail/ Hosp.

Jackie Fitzpatrick
Administrative Assistant

**Retail POS /Displays
/Printers/ HH Scanner**
Gary Dalton
Director

- RealPOS XR7Plus
- Handheld Scanners
- Fran Harrington- Displays**
- RealPOS 59xx Displays
- RealPOS X-Series Displays
- Marquita Rutledge – Integrated POS**
- RealPOS XR5 / XR7
- RealPOS 23/25/50
- RealPOS 72XRT
- RealPOS XR3/4
- Phil Walker – Modular POS**
- RealPOS 82XRT
- RealPOS 40/60
- RealPOS XR6 / XR8
- Mobile Gateway Controller
- Yolanda Wider - Printers**
- 719x POS Printers
- 716X Printers
- Fiscal Printers
- TPP printers

**Servers / Venue POS
Kitchen / Fuel / Devices**
Greg Sirmans
Director

- Matt Kamp**
- Venue POS – QS710, Q1515, Q1535
- Servers / N3000
- Kitchen Production Systems
- Media Players & Texas Digital
- Jean Bae**
- PID Management
- Marketing & Sales Support
- Documentation
- Mark Bullard**
- Fuel Controllers
- Electronic Payment Controllers
- Outdoor Payment Terminals
- Kiosks – K602, K652, Legacy
- Drive Thru PCD
- Beacons
- Thomas Rogers**
- Cash Drawers
- POS Keyboards
- PC Peripherals
- Monitors

SSCO and Kiosks
Bob Doles
Director

- Ron Berry**
- SelfServ Checkout R6
- SelfServ Checkout R5
- Currency SRT
- Non-standard HW,
- Adjacencies
- Hank Holmes**
- SSCO Scan Portal
- SSCO R6 CD Manager
- Cash Tender Module
- Self Scanning
- Jason Rambler**
- RealScan 74/78 Bi-Optic
- RealScan 79 All Imaging
- RealScan 84 Single-Window
- RealScan 93 Presentation
- Chris Bryant - Kiosks**
- SelfServ 90
- SelfServ 75
- SelfServ XK7
- Japan Semi-Self
- John Egger – Kiosks**
- - Outerwall

HSR POS/Displays
Bill Ward
Director

- T1000 POS
- Legacy POS
- Valerie Baird**
- P1515, P1525 POS
- P1530, P1230 POS
- P1535, P1235 POS
- Marek Szramel**
- Tablets & Tablet Stands
- Orderman / PDAs
- Payment Terminals
- Receipt Printers & Consumables
- Firewall (Watchguard)
- Misc Cables / Connectors
- Tara Trbovich**
- Customer Displays (7", 12", 15")
- Network Switches
- Power Protection Products (UPS)
- Scales
- Coin Dispensers
- BOH printers
- Tina Stevenson**
- Operating Systems
- Platform Software
- AV Software

**Salzburg Solutions
Management**
Christian Korneli

- Michael Meike**
- Gregor Madjan**
- Philipp Schmidt**

NCR Reliability – Continuous Improvement

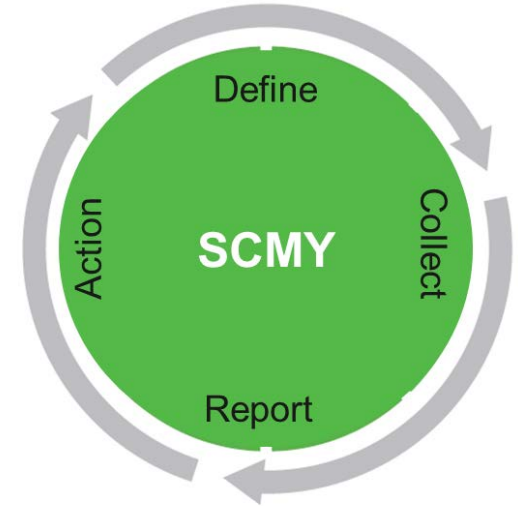
Reliable and Rugged

- Designed for Retail
- Industrial Grade Components
- Environmental Testing
- Recovery Button
- Odometers
- Platform Integration Testing

**PURPOSE
BUILT
FOR RETAIL**



We market as Purpose built for retail – SCMY should reflect that effort



NCR RealPOS POS Portfolio 2017

NCR Confidential

Innovation with scalable performance

Best

Better

Good

Performance

MODULAR (FULLY CONFIGURABLE)



RealPOS XR8

Full Size POS/ Back-Office
Intel Gen 6



RealPOS XR6

Next Generation Compact POS
Intel Gen 4



RealPOS 82XRT

Full Size POS/ Back-Office
Intel Gen 3 - Discontinue in Q3 2017



RealPOS XR4

Value Compact POS
Braswell Dual

INTEGRATED TOUCH



RealPOS XR7Plus

All-In-One Multi-touch POS
Intel Gen 6



RealPOS XR7

All-In-One Multi-touch POS
Intel Gen 4



RealPOS 72XRT

Integrated POS
Intel Gen 3 - Discontinue in Q3 2017



RealPOS XR5

All-In-One Fanless Multi-touch POS
Braswell Quad



RealPOS XR3

Value All-In-One POS
Braswell Dual

NCR RealPOS XR6

Overview



Compact solution with outstanding performance and reliability to improve productivity and customer service

Powerful

- 4Th generation Intel processor technology
- Intel Core i5 vPro, Core i3, Celeron
- Intel Q87 Express Chipset
- Choice of hard disk or solid state drive



Compact

- Innovative compact design
- Smallest form factor in its class
- Conserves valuable checkout space
- Versatile mount options



Retail Hardened

- Powered USB and Serial connectivity
- Rugged die-cast aluminum cabinet
- Innovative cooling solution
- Energy-efficient



Serviceable

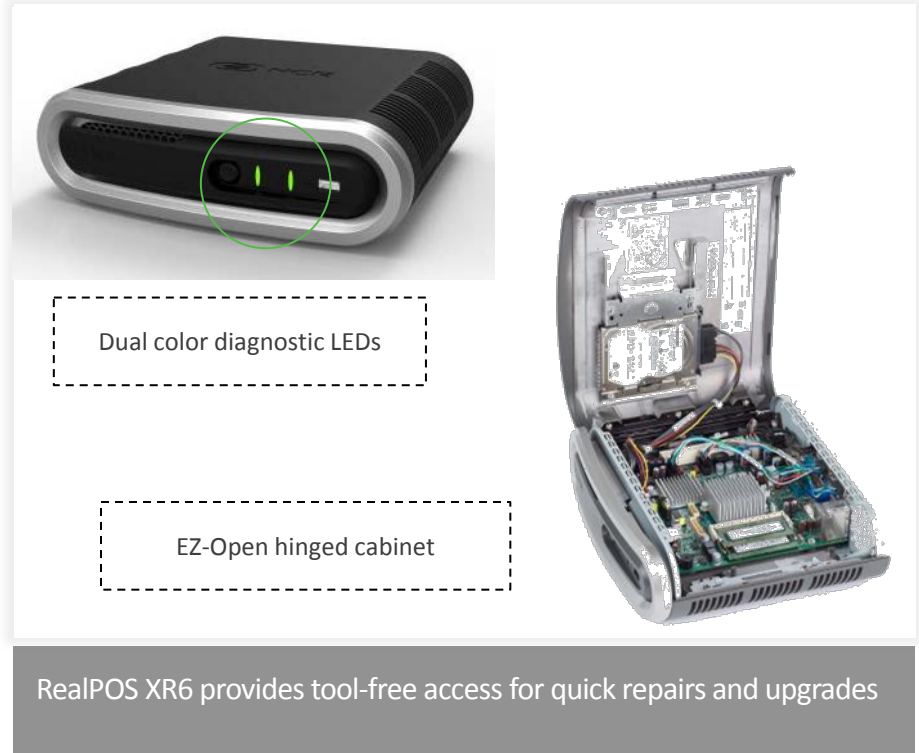
- EZ-Open hinged design
- Tool free access to internal components
- NCR Image Recovery
- Intel AMT 9.X Remote Management (Core i5 / i3)

NCR RealPOS XR6

Small Chassis, Simple Serviceability

EASY TO SERVICE

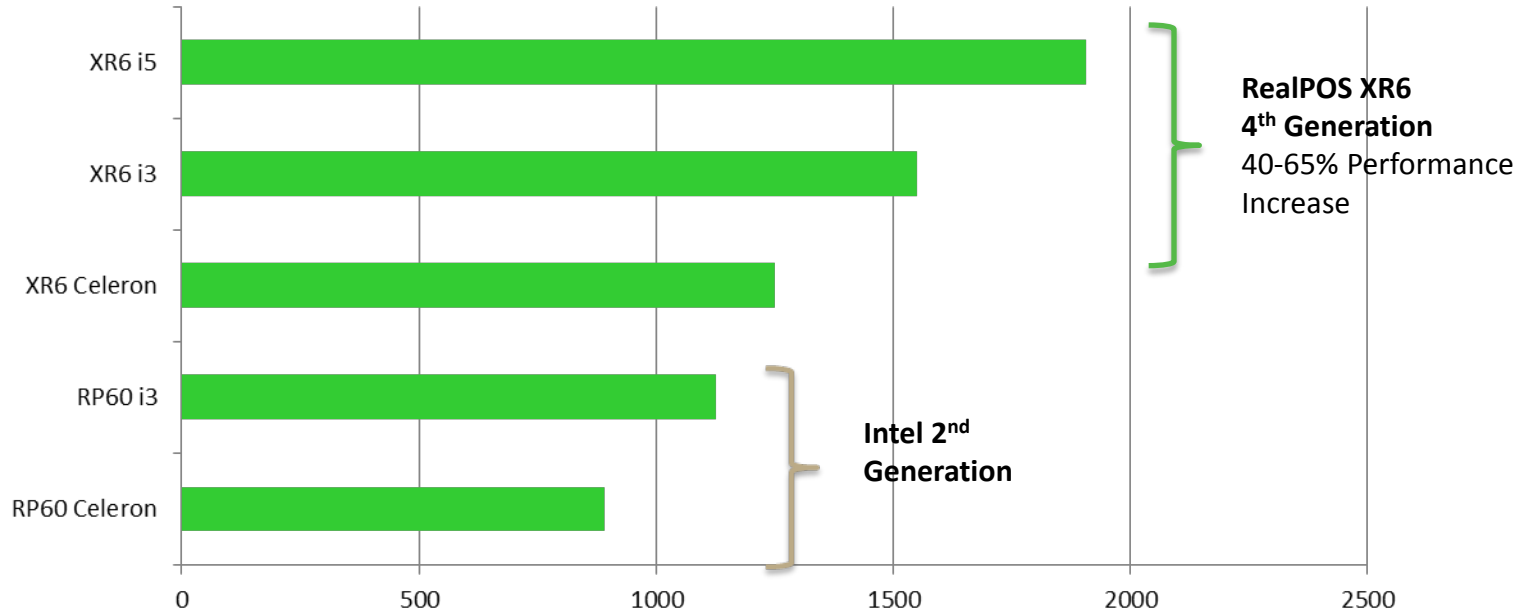
- EZ-open hinged cabinet
- Tool free access to internal components
- Tool free replacement of hard disk drive
 - Sliding bracket unlocks and locks
 - Single connection for data and power
 - Easily executed by store associate
- External power supply enables easy swap
- OS Recovery Button



NCR RealPOS XR6

Intel 4th Generation Performance

Passmark Rating – Overall System Performance



Note: These are preliminary results based on early B-models testing and will be updated with production XR6 model testing

I AM THE NCR REALPOS™ XR8

Proof that big things do come in small packages

The NCR RealPOS XR8 offers power, security and versatility for your stores in one of the smallest form factors in its class.

Fast, reliable checkout

The NCR RealPOS XR8 is powered by the latest 6th generation Intel® Core™ processor technology and will exceed your expectations whether you use it as a POS terminal or a back-office server. Choose from a range of processor options to best meet the needs of your stores. It's also available with a single or a dual disk drive option and offers RAID support.

Unmatched versatility

The XR8's compact design will fit into virtually any retail environment whether you use it under a counter, on the counter or with a peripheral integration tray. Its classic black color has a modern appeal, and it coordinates with a full range of peripherals including displays, printers, and scanners. The XR8's unique design lets you select either front or rear peripheral connectivity to simplify cabling and accessibility, and all connections are secured by a key lock for increased security. The XR8 offers 11 USB ports, 4 serial ports, and VGA, HDMI and display port to give you the I/O flexibility you need. Also, a PCIe slot is available for even more connectivity options.

Service made easy

The XR8 is built to last with a rugged housing that provides two-free front access for servicing. On-board diagnostics help proactively monitor the terminal to help minimize downtime. An image recovery feature lets you quickly and easily restore a saved OS software image with the press of a button. Lastly, Intel® vPro™ is available with certain models to let you remotely monitor, upgrade, or even repair a terminal.



The bottom line

The NCR RealPOS XR8 is ideal for virtually any retail checkout environment. You can combine it with NCR's extensive portfolio of retail peripherals to meet the unique requirements of your stores. With superior performance, a small package, and dynamic cable routing options, the RealPOS XR8 helps provide an exceptional checkout experience.

For more information,
visit www.ncr.com, or email retail@ncr.com.

 NCR

NCR RealPOS XR8

Next Generation Performance and Design



Powerful

- Next 6th generation Intel processor technology
- Intel® Core™ i5 vPro™ processor
- Intel® Core™ i3 processor
- Intel® Celeron® processor

Secure

- HW Enabled Security – UEFI Secure boot, BIOS PWD Mgt
- Intel® VT-x/d for Virtualization-based security
- Intel® AES-NI, IPT & SGX enhance encryption & data protection
- Supports TPM 1.2 and 2.0 on the CPU



Expandable

- Hard Disk or SSD
- Single or dual disk drives (RAID), DVD, UPS options
- Maximum connectivity: 15 USB Ports / 4-6 Serial Ports
- PCIe Expansion Slot : 4 additional USB 3.0 ports

Serviceable/R eliable

- Best-in-class serviceability, Image Recovery Button
- Secure, tool-free front access to drives
- Advanced systems management capabilities
- Retail tested to withstand tough environments
- NCR stringent testing goes beyond desktop testing

Powerful and versatile solution features exceptional performance and reliability with best-in-class serviceability & security

Versatile

- POS workstation or back office server
- Smaller footprint helps conserve space
- Modular (distributed) or integrated with peripheral tray
- Innovative design with flexible peripheral I/O
- Available standard feet for rear I/O

NCR RealPOS XR8

Innovative new features



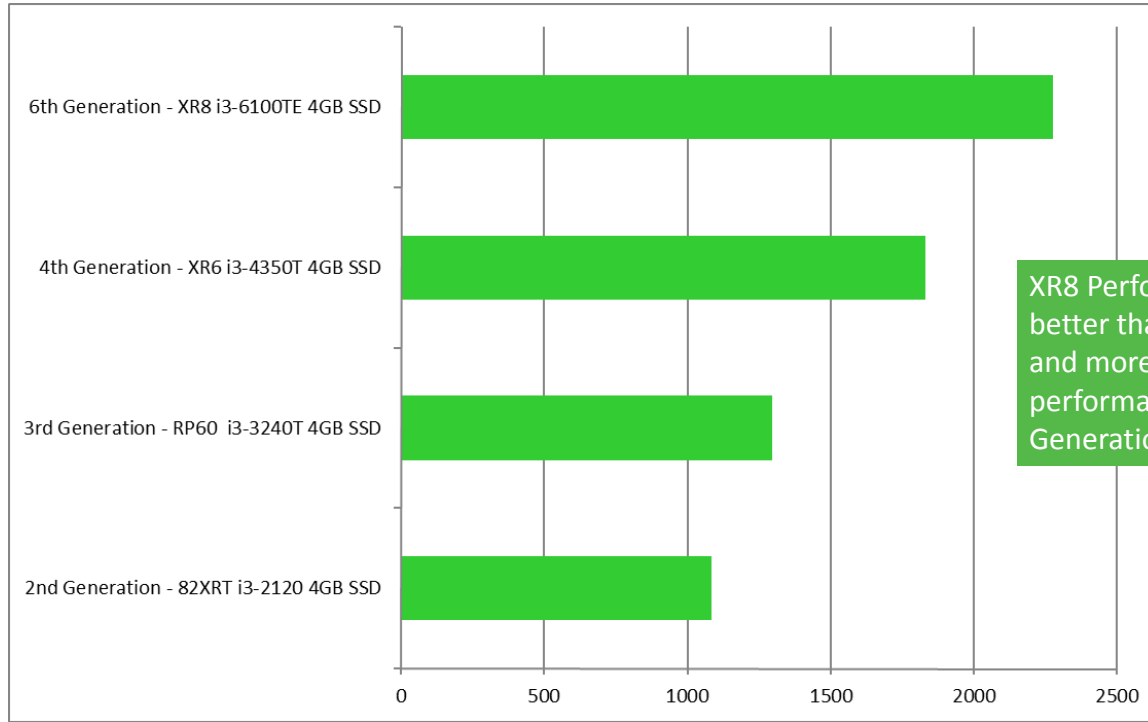
Front I/O Advantages

- Door protects I/O access
- Faster installation
- Unprecedented cable access
- Easier troubleshooting / Service
- Image Recovery Button
- Simplifies Integration tray access



NCR RealPOS XR8

Generation Comparison



XR8 Performance is up to 20% better than 4th generation POS and more than double the performance of a 2nd Generation POS

Based on Passmark Performance Test V8.0 Overall Passmark Scores

RealPOS XR8 provides an impressive performance boost vs. previous generation POS

NCR RealPOS XR8

Early Adopters

Big Y - Grocery

Big Y is the largest family owned retail food company in Southern New England, based in Springfield, MA.



**1,100 terminals
delivered in 2016**

USPS

USPS delivers more mail, to more addresses in a larger geographical area than any other post in the world. The Postal Service manages 31,606 retail offices



**42,000 over 3 years
11,758 in 2016**

Coles Supermarkets (AUS)

In April, 2014 Coles celebrated 100 years of serving Aussie families. Coles has over 200 stores in Australia.



**10,000 over 3 years
4,810 in 2016**

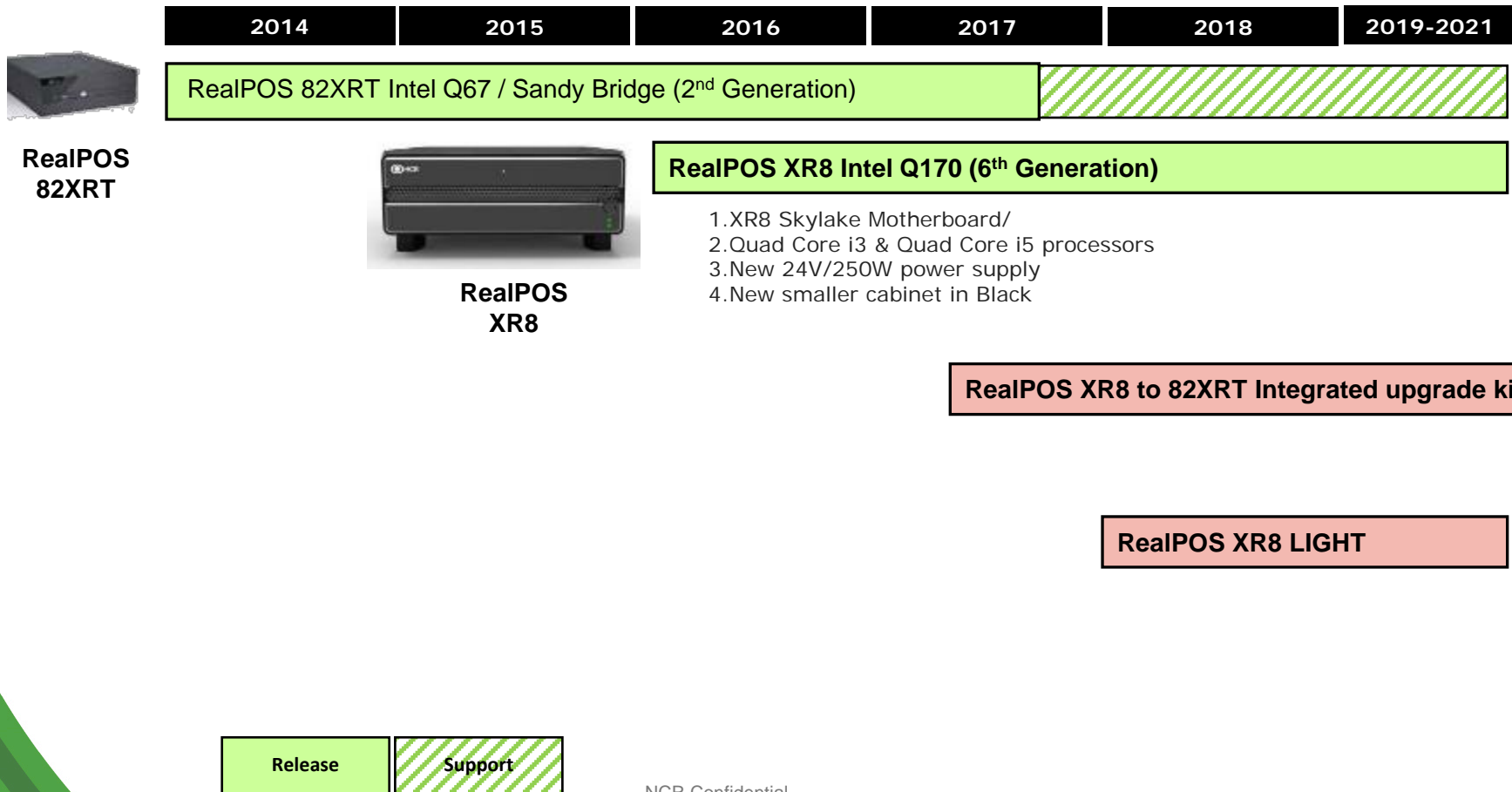
Petco (US)

Petco is a leading pet specialty retailer with more than 1430 stores across the US, Mexico, and Puerto Rico.



**3,000 terminals in
2016 and 2017**

RealPOS 82XRT / XR8 Roadmap







XR8 / XR6 Competitive Comparison



Key Feature	RealPOS XR8	RealPOS XR6	Toshiba TCx780	Wincor Beetle /M-III	HP RP5 Model 5810
Intel Chipset	Q170 Express / 6 th Generation	Q87 Express / 4 th Generation	Q87 Express / 4 th Generation	Q87 Express / 4 th Generation	Q87 Express / 4 th Generation
CPU offers	Core™ i5-6500TE Core™ i3-6100TE Celeron® G3900TE	Intel® Core™ i5 – 4590T Intel® Core™ i3 – 4350T Intel Celeron™ G1820TE	Intel Core i5 (2016) Intel Core i3 4330 Celeron G1820TE/G1820	Intel Core i5-4570S Intel Core i3-4330 Intel Celeron G1820	Intel® Core™ i7-4770S Intel® Core™ i5-4570S Intel® Core™ i3 4330 / 4150 Intel® Pentium® G3420 Intel® Celeron™ G1820
Energy Efficient CPUs	35W	35W	54W	54W	54W
Memory	Up to 32GB DDR4	Up to 16GB DDR3	Up 32GB DDR3	Up to 16GB DDR3	Up to 32GB DDR3
USB (powered)	7x12v 1x24v	4x12v 1x24v	8x12v 1x24v	8x12v 1x24v	6x12v 1x24v
Serial (powered)	4	4	7	8	4
Storage	HDD or SSD	HDD or SSD	HDD or SSD	HDD or SSD	HDD or SSD
PCI / PCIe Expansion	1 PCIe	No expansion	2 PCIe	2 PCIe	2 PCI/PCIe x1 (for RS-232) 2 PCIe x16 (12V for USB)
Dimensions WxDxH (mm)	300x302x109	254x226x76	320 x 444 x 102	312 x 303 x 103	338 x 381 x 100
Integration Tray	Yes	Yes	Yes	Yes	No
Power Supply	Internal 250W MEPS Level V	External 150W MEPS Level V	Internal 250W 80Plus Gold	Internal	Internal 240W 80Plus Gold
Serviceability	Enhanced	Enhanced	Enhanced	Traditional	Traditional
Purpose Built for Retail	Yes	Yes	Yes	Yes	No
Warranty	1 Year	1 Year	1 Year	Not published	3 Years On-site

NCR RealPOS X-Series Integrated

Next generation performance and design for an exceptional in-store experience

RealPOS XR5 All-in-one Fan-less POS 15"	RealPOS XR7 All-in-one POS 15", 18.5", 21.5"	RealPOS XK7 On pedestal 18.5" or 22"	RealPOS X-Series Displays Touch and non-touch 10" and 15"
			 <p data-bbox="1362 922 1806 966">10.4" PCAP now available</p>

Integrated POS in Grocery - WFM



Integrated POS in Grocery – Tamimi



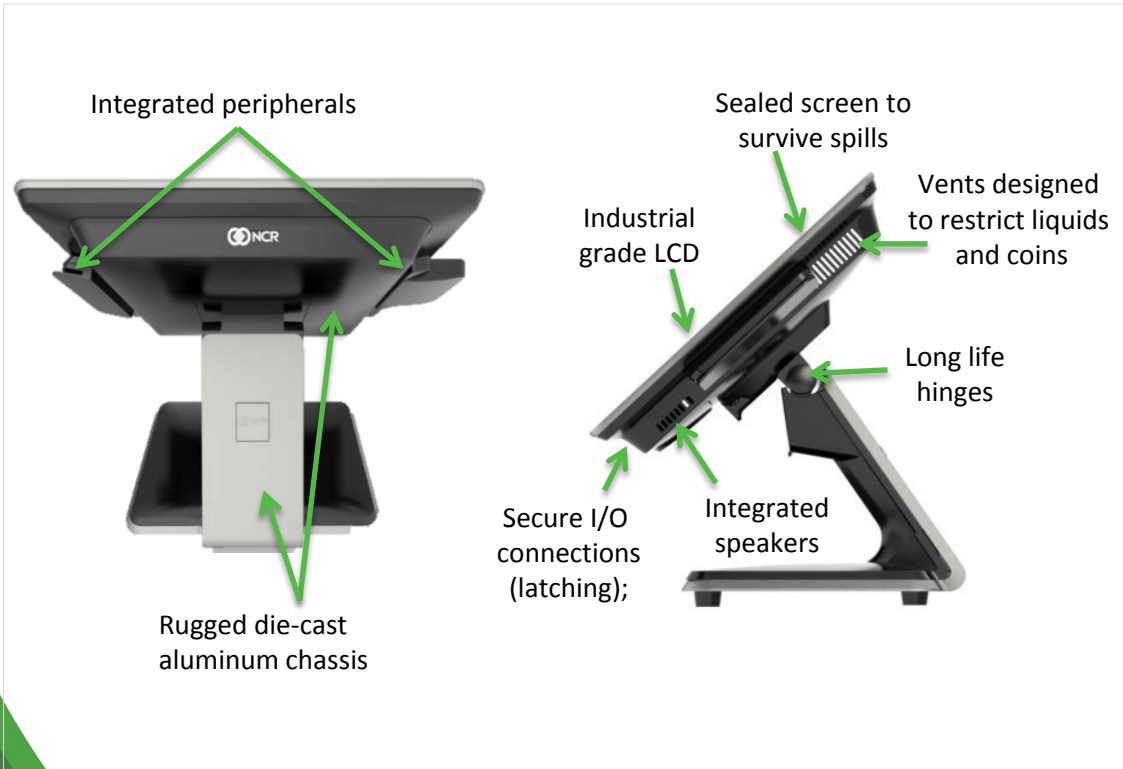
Earl Toler

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Excellent job to all, this is without question one of if not the nicest POS in existence today 😊

NCR RealPOS XR7/XR5

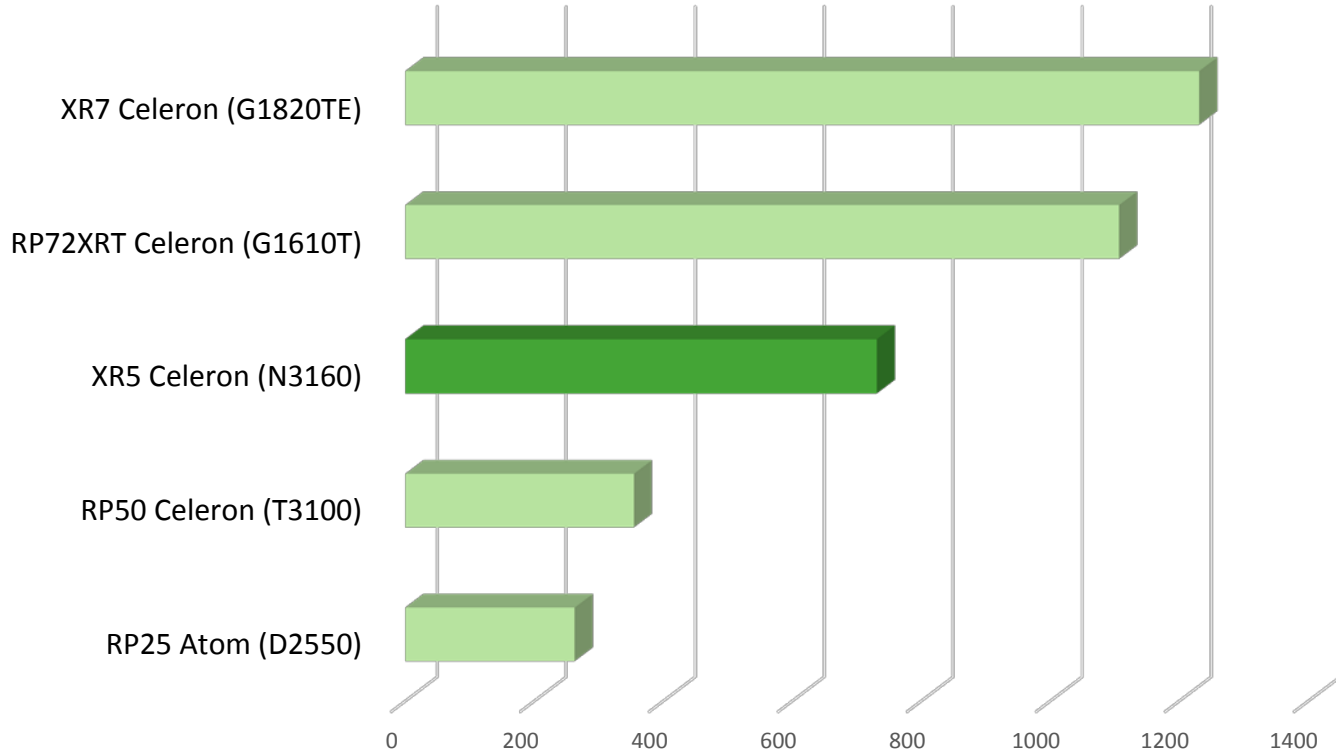
Same Chassis - Purpose built for retail



- Integrated peripherals
- Rugged die-cast aluminum chassis
- Sealed zero-bezel touchscreen
- Long life LCD: LED backlight rated at 50K hours (to ½ brightness)
- Vents designed to restrict intrusion of liquids and object (e.g. coins)
- Robust long-life hinges
- Powered USB and Serial I/O

NCR RealPOS Integrated Touch Family

Intel Performance (Passmark)



X Series Features

Keypad, Integrated Scanner and UV Light options



NCR REALPOS XR7 ROADMAP

2016		2017		2018		2019	
Q1/Q2	Q3/Q4	Q1/Q2	Q3/Q4	Q1/Q2	Q3/Q4	Q1/Q2	Q3/Q4

RealPOS XR7 Gen 4 Technology (Launch July 2014 ...End of sale July 2019)

5 Year support Begins

RealPOS XR7PLUS Gen 6 Technology (Launch November 2016 ...End of sale Dec 2021)



- Intel® Q170 Express Chipset
- Intel 6th generation Core processors
 - Intel® Core™ i5-6500TE
 - Intel® Core™ i3-6100TE
 - Intel® Celeron® G3900TE
- DDR4 Memory up to 32GB*
- SATA Solid State Drives (120GB)
- 240GB SSD option
- RAID support via M.2

NCR RealPOS POS Portfolio 2017

NCR Confidential

Innovation with scalable performance

Best

Better

Good

Performance

MODULAR (FULLY CONFIGURABLE)



RealPOS XR8

Full Size POS/ Back-Office
Intel Gen 6



RealPOS XR6

Next Generation Compact POS
Intel Gen 4



RealPOS 82XRT

Full Size POS/ Back-Office
Intel Gen 3 - Discontinue in Q3 2017



RealPOS XR4

Value Compact POS
Braswell Dual

INTEGRATED TOUCH



RealPOS XR7Plus

All-In-One Multi-touch POS
Intel Gen 6



RealPOS XR7

All-In-One Multi-touch POS
Intel Gen 4



RealPOS 72XRT

Integrated POS
Intel Gen 3 - Discontinue in Q3 2017



RealPOS XR5

All-In-One Fanless Multi-touch POS
Braswell Quad



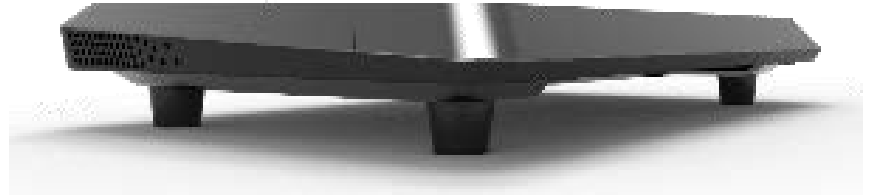
RealPOS XR3

Value All-In-One POS
Braswell Dual

XR3 AND XR4 – SNEAK PREVIEW

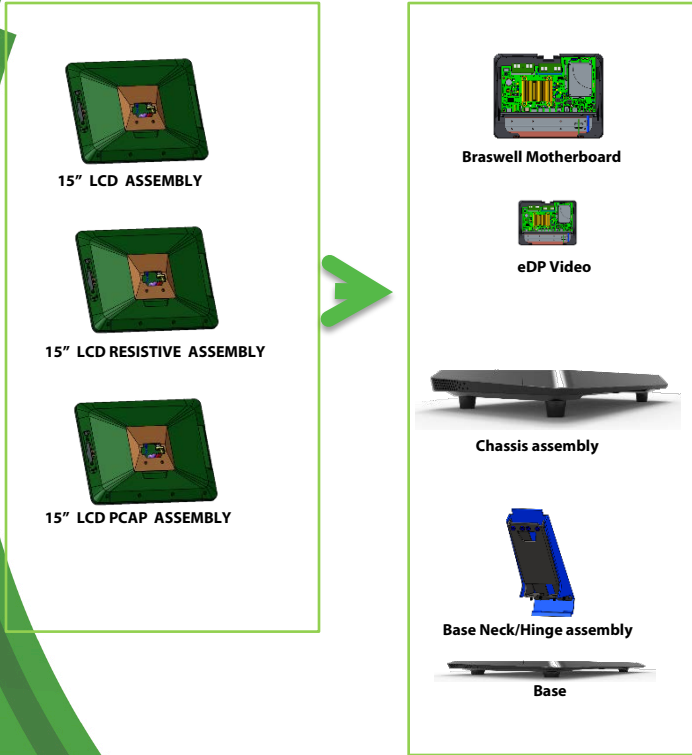
Channel Friendly POS

NCR Confidential



XR3 AND XR4 – SNEAK PREVIEW

Channel Friendly POS



POS - Modular



XR4



MGC 2

POS - Modular



XR3 15" PCAP



XR3 15" Resistive

Display Stand



TOUCH DISPLAYS



15" XL PCAP



15" XL Resistive

DISPLAY

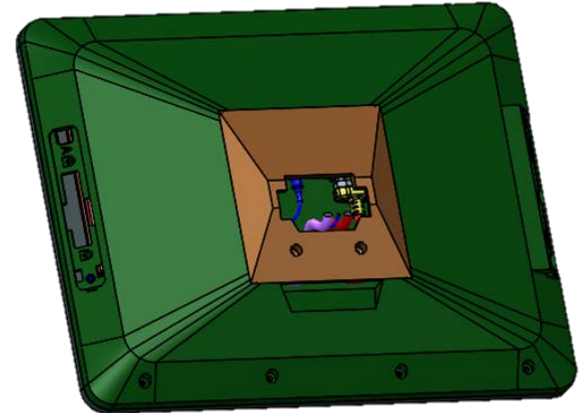


15" XL

Product Overview – XL15 Display

- 15" 350 nit Display
- Thin, stylish display
- Leverage P-Series POS peripherals
- LCD and PCAP – Zero Bezel
- Resistive - Bezel free look
- eDP video interface ONLY
- Future support for On cell touch
- Low cost stand
- USB – C enablement desired

Other sizes to use same Philosophy



NCR RealPOS Display Strategy

Best



10.4" Display



15" Display



10.4" Res



10.4" PCAP



15" Resistive
Or PCAP



15" PCAP/keypad

Better



7" wide concept



12" Display concept



15" Display



7" wide PCAP
concept



12" Display PCAP
concept



15" Resistive
Or PCAP



15" PCAP/keypad

Good



6.5" Display



12" Display



15" Display



12" SCAP



15" SCAP



15" SCAP w/dynakey

Display Only

Display + Touch

DYNAKEY XL – WHAT'S IMPORTANT?



- Keylock ?
- MSR ?
- Biometrics?
- Physical function keys ?
- Upgrade from XL display?

NCR RealPOS 7199 – Launch in 2017

Higher performance and reliability



28% footprint reduction – top or front exit

NCR RealPOS 7199 Solution Strategy



Performance Increase

- 13 inches per second (330mm/per second)
- Higher Print Quality than current product
- 5% Energy Improvement
- USB 2.0 High speed

Increased Reliability

- 200 km head life (12.5% life increase)
- 2 million knife cuts (100% more reliable than current model)
- More robust firmware logic (modular design)
- Spill proof, enclosed internal components

Improved Serviceability

- Easy and less time consuming print head removal/replacement
- Easy and less time consuming cutter removal/replacement
- Thumb drive support for easy firmware update & printer configuration
- Multi-color LED

Enhanced Flexibility

- Fixed base – eliminate potential E&O
- Top and front existing receipt printing orientation
- Horizontal and vertical installation
- Various interface support (USB, Serial, LAN – Release 1.0) & (Bluetooth, Wi-Fi – Release 1.1)
- All fonts (Single and double byte) included in base

Improved Usability

- One hand cover open
- Fool proof power connector insertion
- Visual understanding of error
- USB Thumb Drive
 - A more user friendly way to change print config and flash firmware

The sleek look you desire with the performance, reliability, and size you require.

NCR RealPOS 7199 Thermal for 2017

7169 multi station will be next update



NCR Reliability – It shows

Reliable and Rugged

- Designed for Retail
- Industrial Grade Components
- Environmental Testing
- Recovery Button
- Odometers
- Platform Integration Testing





SYNERGY 2016
EXPERIENCE 2020

Thank you

Please remember to come
by the HW booth!

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Duluth, GA 30096
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NCR RealPOS XR8 vs. Toshiba TCx780



<u>Category</u>		<u>NCR RealPOS XR8</u>		<u>Toshiba TCx780</u>	<u>Advantage</u>
Latest Intel Technology	+	Intel 170 Chipset with 6 th generation Intel Core processors (latest Intel technology)	-	Intel Q87 Chipset with 4 th generation Intel Core processors	The Passmark testing that NCR has completed shows up to a 16% performance improvement of 6 th generation vs 4 th generation (Haswell)
Styling / Smaller Form Factor (overall cabinet volume and counter footprint)	+	New Smaller cabinet	-	Traditional PC box design	XR8 has a more compact, design and better styling. It is 32% smaller in volume and has a 36% smaller counter footprint vs Toshiba which saves valuable counter space. The XR8 is also 39% lighter vs the TCx780. The smaller size and weight makes servicing easier and depot service options more efficient and less expensive.
Reversible I/O Capability – Front I/O Advantages	+	New design allows the I/O to be placed in front	-	Traditional PC box design – all I/O is in the back	XR8 has the unique ability to reverse the I/O, permitting the I/O to face forward for better serviceability. Also, front I/O is better for security, with all the I/O under lock and key.
Energy Efficient / Reliability	+	35 Watt processors MEPS V power supply	-	54 -64 Watt processors	The XR8 is more energy efficient vs. Toshiba TCx780. Also, these lower watt CPUs put off less heat, extending the life of the terminal.

The NCR RealPOS XR8 has strong advantages over the TCx780

NCR RealPOS XR8 vs. Wincor Beetle/M-III



Category		<u>NCR RealPOS XR8</u>		<u>Wincor Beetle/M-III</u>	<u>Advantage</u>
Latest Intel Technology	+	Intel 170 Chipset with 6th generation Intel Core processors (latest Intel technology)	-	Intel Q87 Chipset with 4th generation Intel Core processors	The Passmark testing that NCR has completed shows up to a 16% performance improvement of 6 th generation vs 4 th generation (Haswell)
Styling / Smaller Form Factor (overall cabinet volume and counter footprint)	+	New smaller cabinet	-	Traditional PC box design	XR8 has a more compact design and better styling. It offers a slightly smaller counter footprint vs Wincor which saves valuable counter space. The XR8 is also 25% lighter vs Wincor. The smaller footprint and weight makes servicing easier and depot service options more efficient and less expensive.
Reversible I/O Capability – Front I/O Advantages	+	New design allows the I/O to be placed in front	-	Traditional PC box design – all I/O is in the back	XR8 has the unique ability to reverse the I/O, permitting the I/O to face forward for better serviceability. Also, front I/O is better for security, with all the I/O under lock and key.
Energy Efficient / Reliability	+	35 Watt processors MEPS V power supply	-	54-64 Watt processors	The XR8 is more energy efficient vs. Wincor Beetle/M-III. Also, these lower watt CPUs put off less heat, extending the life of the terminal.

The NCR RealPOS XR8 has strong advantages over the Beetle /M-III

NCR RealPOS XR8 vs. HP RP5 5810



Category		NCR RealPOS XR8	HP RP5 5810	Advantage
Latest Intel Technology	+	Intel 170 Chipset with 6th generation Intel Core processors (latest Intel technology)	- Intel Q87 Chipset with 4th generation Intel Core processors	The Passmark testing that NCR has completed shows up to a 16% performance improvement of 6 th generation vs 4 th generation (Haswell)
Styling / Smaller Form Factor (overall cabinet volume and counter footprint)	+	Sleek modern design in a compact form factor	- Traditional PC box design	XR8 has a more compact design and better styling. It is 24% smaller in volume and has a 30% smaller counter footprint vs HP, which saves valuable counter space. The XR8 is also 8% lighter vs the RP5. The smaller size and weight makes servicing easier and depot service options more efficient and less expensive.
Reversible I/O Capability – Front I/O Advantages	+	New design allows the I/O to be placed in front	- Traditional PC box design – all I/O is in the back	XR8 has the unique ability to reverse the I/O, permitting the I/O to face forward for better serviceability. Also, front I/O is better for security, with all the I/O under lock and key.
Energy Efficient / Reliability	+	35 Watt processors MEPS V power supply	- 54 064 Watt processors	The XR8 is more energy efficient vs. HP RP5 5810. Also, these lower watt CPUs put off less heat, extending the life of the terminal. In addition, the HP 5810 is a true general purpose PC, that is fitted with retail I/O (powered USB, serial, etc) and re-packaged as a POS terminal. It is not designed to withstand a harsh, retail environment.

The NCR RealPOS XR8 has strong advantages over the HP RP5

NCR RealPOS XR7 vs. Wincor Beetle iPOS plus Advanced



Category	NCR RealPOS XR7	Beetle /iPOS plus - Advanced	Advantage
Latest Technology	Intel Q87 Chipset with 4th generation Intel Core processors	Intel Q87 Chipset with 4th generation Intel Core processors	Same Intel chipset
User Interface	15" P-Cap multi-touch (4:3) – 500 nits 15" Resistive touch (4:3) – 500 nits 18.5" / 21.5" P-Cap multi-touch (16:9) – 300 nits LED	15" P-Cap Touch (4:3) - 250 nits 2 finger Touch 15" Resistive option	XR7 features higher brightness LED displays and more size options and 10 finger touch for an improved user experience.
Styling / Form Factor	Stylish and compact all-in-one with sleek zero bezel design and slim profile and all required retail I/O	Zero bezel display with P-Cap touch but not "all-in-one" and has a large bulky base with HUB for retail I/O	XR7 has a thinner more compact design and better styling and flexible mounting options plus has all required I/O with no HUB
Service ability	Compact all-in-one design with focus on design language. Chassis streamlined with no visible doors or screws	Disk and memory can be accessed from bottom via sleds.	Wincor is more easily serviced if Drive or memory is at fault
Storage	120GB Solid State Drive 500GB Hard Disk Drive Optional dual disk drives with RAID	Solid State Drive or Hard Disk Drive, size not published	XR7 features option of dual drives with RAID
Manageability	Odometers and recovery button		XR7 supports enhanced remote support
Connectivity	Powered USB – 3x 12V and 1x 24V (printer) PC USB 3.0 – 2x Powered Serial – 1x 12V with option for 6 total Secondary Display - HDMI and DisplayPort	PC USB – 2 x 3.0 3 x 2.0 on base unit Secondary Display – VGA Optional HUB offers Powered Serial – 2x 12V Powered USB - 2 x12V 1x24v	XR7 supports Powered USB and Serial ports for retail peripherals on the terminal with no additional HUB plus Digital video out

NCR RealPOS XR7 vs. Wincor Beetle iPOS plus Advanced

NCR RealPOS XR7 vs. Wincor Beetle iPOS plus



Category	NCR RealPOS XR7	Toshiba TCx Wave	Advantage
Latest Technology	Latest Intel technology with Q87 Chipset and 4 th generation Core processor family. Intel Q87 Chipset launched Q2, 2013 Celeron - Q1, 2014; i3- Q3, 2013; i5-Q2,2013	Intel HM65 Chipset and TCx Wave processors are 3-year old technology. HM65 Chipset launch - Q1, 2011 (3 yrs. old) Celeron - Q1, 2011; Core i3- Q3, 2012.	XR7 features the latest Intel Chipset and processor technology vs. Wave (3 years old). XR7 superior performance and investment protection with a long product lifecycle.
Performance	Intel Core i5-4570TE vPro (2.7-3.3GHz / 4MB) Intel Core i3 4330TE (2.4GHz / 4MB Cache) Intel Celeron 1820TE – 2.2GHz Processor	No Intel Core i5 option Intel Core i3-3217UE (1.6GHz / 3MB Cache) Intel Celeron 847e (1.1GHz / 2MB Cache)	XR7 4 th generation Core processor family delivers <u>significantly</u> higher performance versus low power processors on TCx Wave
Interface Options	18.5" Projected Capacitive multi-touch (16:9) 15" Projected Capacitive multi-touch (4:3) 15" Resistive touch (4:3 aspect ratio)	18.5" Projected Capacitive multi-touch 15" available in different chipset 5 point multi touch only	XR7 offers multiple interface options and the more accurate 10 point multi touch
Styling / Form Factor	Stylish and compact all-in-one with sleek zero bezel design and slim profile	Distinctive design but has a large form factor and a bulky dockable base (no 15" option)	XR7 has a thinner more compact design and better styling
Versatility	All-in-one design with integrated Powered USB connectivity. Can be used as POS or Kiosk . Can be mounted on countertop, pole or wall.	Can be used for POS or Kiosk and mount on counter, pole or wall, but requires Dockable Base or Aplace Hub for Powered USB.	XR7 is more versatile since it does not require a Dockable Base or separate hub for retail peripheral connectivity
Storage	120GB Solid State Drive (Intel S3500) 500GB Hard Disk Drive Optional dual disk drives with RAID	64GB Solid State Drive (128GB SSD option) No Hard Disk Drive option No RAID option	XR7 supports HDD & RAID (not available on Wave).
Security	Encrypted MSR, Biometric Fingerprint Reader, TPM optional	No Encrypted MSR, No Biometrics, TPM supported	XR7 offers enhanced security with Encrypted MSR and integrated Fingerprint Reader
Serviceability	Front access to I/O; All-in-one design enables efficient Depot/ AED service model	Counter-top Stand supports "dockable" head	TCx Wave - head can be removed without disconnecting peripheral cables
Manageability	Odometers and recovery button		XR7 supports enhanced remote support

NCR RealPOS XR7 vs. Toshiba TCx Wave 18.5"



<u>Category</u>	<u>NCR RealPOS XR7</u>	<u>Toshiba TCx Wave</u>	<u>Advantage</u>
Latest Technology	Latest Intel technology with Q87 Chipset and 4 th generation Core processor family. Intel Q87 Chipset launched Q2, 2013 Celeron - Q1, 2014; i3- Q3, 2013; i5-Q2,2013	Intel HM65 Chipset and TCx Wave processors are 3-year old technology. HM65 Chipset launch - Q1, 2011 (3 yrs. old) Celeron - Q1, 2011; Core i3- Q3, 2012.	XR7 features the latest Intel Chipset and processor technology vs. Wave (3 years old). XR7 superior performance and investment protection with a long product lifecycle.
Performance	Intel Core i5-4570TE vPro (2.7-3.3GHz / 4MB) Intel Core i3 4330TE (2.4GHz / 4MB Cache) Intel Celeron 1820TE – 2.2GHz Processor	No Intel Core i5 option Intel Core i3-3217UE (1.6GHz / 3MB Cache) Intel Celeron 847e (1.1GHz / 2MB Cache)	XR7 4 th generation Core processor family delivers <u>significantly</u> higher performance versus low power processors on TCx Wave
Interface Options	18.5" Projected Capacitive multi-touch (16:9) 15" Projected Capacitive multi-touch (4:3) 15" Resistive touch (4:3 aspect ratio)	18.5" Projected Capacitive multi-touch 15" available in different chipset 5 point multi touch only	XR7 offers multiple interface options and the more accurate 10 point multi touch
Styling / Form Factor	Stylish and compact all-in-one with sleek zero bezel design and slim profile	Distinctive design but has a large form factor and a bulky dockable base (no 15" option)	XR7 has a thinner more compact design and better styling
Versatility	All-in-one design with integrated Powered USB connectivity. Can be used as POS or Kiosk . Can be mounted on countertop, pole or wall.	Can be used for POS or Kiosk and mount on counter, pole or wall, but requires Dockable Base or Anyplace Hub for Powered USB.	XR7 is more versatile since it does not require a Dockable Base or separate hub for retail peripheral connectivity
Storage	80GB Solid State Drive (Intel S3500) 500GB Hard Disk Drive Optional dual disk drives with RAID	64GB Solid State Drive (128GB SSD option) No Hard Disk Drive option No RAID option	XR7 uses Intel S3500 data center class SSD for best performance and reliability. XR7 supports HDD & RAID (not available on Wave).
Security	Encrypted MSR, Biometric Fingerprint Reader, TPM optional	No Encrypted MSR, No Biometrics, TPM supported	XR7 offers enhanced security with Encrypted MSR and integrated Fingerprint Reader
Serviceability	Front access to I/O; All-in-one design enables efficient Depot/ AED service model	Counter-top Stand supports "dockable" head	TCx Wave - head can be removed without disconnecting peripheral cables
Manageability	Odometers and recovery button		XR7 supports enhanced remote support