Aloha POS Software and Hardware Roadmap

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Aloha Platform Strategy

Bigger Ecosystem to Provide Flexibility and Extensibility

Industry Trend:
Growth in Off-Premise Channels and Guest Engagement

Extended Cloud Architecture and Simplified Site Footprint

Industry Trend:
Easier Deployment & Access via Cloud

Mobility & Device Agnostic Solutions

Industry Trend:
More Smart Edge Devices
Aloha Platform Strategy

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Industry Trend:
More Smart Edge Devices
Some Historical Perspective

Site Level Applications
“Aloha Connect”

2000s
- Aloha POS only
- Premise-based COM
- Requires in-store deployment

Integrate Applications
“Cloud Connect”

2013
- Across NCR Hospitality
- Application-based API
- Partner Friendly

Modern APIs
“Omni-Channel Decision Support Platform (ODSP)”

2017
- Across NCR
- Micro-service based
- Partner Centric
Omni-Channel Decision Support Platform (ODSP)

- NCR Capabilities
- Third Party Applications
- Customer Apps

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Omni-Channel Decision Support Platform (ODSP)

- NCR Capabilities
- Third Party Applications
- Customer Apps

OMNI-CHANNEL DECISION SUPPORT PLATFORM

- Business Services
- Technical Services

DIGITAL AND PHYSICAL TOUCHPOINTS

- Restaurant
- Home & On-The-Go
Omni-Channel Decision Support Platform (ODSP)

NCR Capabilities
- Logistics
- Forecasting & Replenishment
- Menus and Items
- Mobile Apps
- Loyalty & Promotions
- Restaurant Production
- Digital Commerce
- POS

NCR Marketplace
- Digital Coupons
- Analytics
- Loyalty

Customer Apps
- Ecosystem Partners

OMNI-CHANNEL DECISION SUPPORT PLATFORM
- Consumer Menu Service
- Delivery Service
- Inventory Service
- Recommendations Service
- Tax Service
- Master Data / Catalog Service
- Customer Data Management
- Transaction Data Mgmt.
- Analytics Service

Business Services
- Selling Engine
- Order Service
- Recommendation Service
- Order Service
- Customer Data Management
- Transaction Data Mgmt.
- Analytics Service

Platform Foundational Service
- Security
- Storage
- Workflow
- Notifications
- Provisioning
- Usage Data

DIGITAL AND PHYSICAL TOUCHPOINTS
- POS
- Mobile POS
- Drive Thru
- Self-Ordering Kiosk
- Kitchen Production
- Digital Signage
- Payment Terminals

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Simplifying Omni-Channel Menus
Simplifying Omni-Channel Menus

POS Systems
Simplifying Omni-Channel Menus

POS Systems

Self-Service Kiosks
Simplifying Omni-Channel Menus

- POS Systems
- Self-Service Kiosks
- Mobile Apps
- Online Ordering
- Delivery Marketplaces
Potential Users of the Platform
PAYMENT INTEGRATIONS AND EXTENSIBILITY USING COMMON API FRAMEWORK
Focusing on the Developer Experience
Welcome to NCR's Developer Experience

NCR has always valued third party solution providers and developer partners. Now we’ve built a place just for developers. We call it the Developer Experience — DX for short. The DX is full of tools: Tools that allow you to easily find the APIs you’re looking for. Tools that walk you through examples with code snippets in the popular technology stacks. Tools that let you test APIs in a sandbox to ensure they’re right for you. It’s your site, so come in and explore!

GET STARTED
API Explorer (Partner View)

- List of available APIs
- Filterable by Industry and Category
Aloha Platform Strategy

Bigger Ecosystem to Provide Flexibility and Extensibility

Industry Trend: Growth in Off-Premise Channels and Guest Engagement

Extended Cloud Architecture and Simplified Site Footprint

Industry Trend: Easier Deployment & Access via Cloud

Mobility & Device Agnostic Solutions

Industry Trend: More Smart Edge Devices
NCR OMNI-CHANNEL PLATFORM

TODAY’S ALOHA PLATFORM

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TODAY'S ALOHA PLATFORM
Aloha Platform Strategy

- Bigger Ecosystem to Provide Flexibility and Extensibility
- Extended Cloud Architecture and Simplified Site Footprint
- Mobility & Device Agnostic Solutions

Industry Trend:
- Growth in Off-Premise Channels and Guest Engagement
- Easier Deployment & Access via Cloud
- More Smart Edge Devices
Modernizing the Architecture and User Experience

Aloha Mobile

Aloha Mobile Next

Aloha POS (Mobile or Fixed)
Innovating the Edge

- Single code base (UI Focused)
- Multi-OS and device agnostic
- Improved quality with deeper automated testing
- Improve speed to market for new features and enhancements
Future Aloha User Experiences
Aloha Platform Strategy

Bigger Ecosystem to Provide Flexibility and Extensibility

Extended Cloud Architecture and Simplified Site Footprint

Mobility & Device Agnostic Solutions

Several Live Use Cases Today

One Live Proof of Concept

Q2 – 2019 Pilot
Agenda

• Current POS portfolio
• Mobile
• Printers
• Kitchen
• Kiosks
• Digital Menu Media Player
The anatomy of a sale

Market / Customer variations

50% Software / Solutions
30% Services / Support
20% Hardware

Lead

Sale

SW  SVS  HW
POS Considerations

We believe the following factors are important for your customers to consider when choosing their POS:

<table>
<thead>
<tr>
<th>Best Design for Hospitality</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>All-in-one, Touch, Brightness, Security, Energy Usage, Fan Usage, Longevity, Durability</td>
<td>✓</td>
</tr>
<tr>
<td>Low Maintenance / TCO</td>
<td>✓</td>
</tr>
<tr>
<td>High Connectivity</td>
<td>✓</td>
</tr>
<tr>
<td>Open Architecture</td>
<td>✓</td>
</tr>
<tr>
<td>Low Risk / Proven Design</td>
<td>✓</td>
</tr>
</tbody>
</table>
How do we compete?

Selling the value

Continue to focus on what differentiates us:

• Purpose-built ruggedized hardware, not repurposed PCs
• Extended support and lifecycles
• Extensive testing & platform integration
• Advanced systems management features, including our unique image recovery capability, system odometers, and predictive service offers
• Ability to deliver a complete solution that includes services, software, and peripherals
NCR RealPOS XR7 Plus

Multi-touch
- Stylish and compact all-in-one
- 15”, 18.5”and 21.5” PCAP (multi-touch)
- High brightness LED LCD (500 nits)
- 50K hours

Best-in Class Performance
- 6th generation Intel® Core processors...Gen 7 option
- Intel Core i5 vPro, Core i3, Celeron
- 4GB DDR3 to 32GB DDR3 (2 slots)
- SSD or HDD; RAID

Versatile
- Kiosk, table-top mount, pole, wall, or pedestal
- Integrated options – consumer displays, MSR, fingerprint reader, camera, wireless

Retail Hardened
- Engineered for harsh environments
- Powered USB and serial connectivity
- Enhanced security - encrypted MSR
- Anti-glare

The look you want with the extreme performance and reliability you need
## NCR P1535 / P1235

### Integrated Touch POS

<table>
<thead>
<tr>
<th>Purpose Built</th>
<th>Flex</th>
<th>Performance</th>
<th>Expandable</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Fanless design runs cool and quiet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• SSD option means fast read and write</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• No moving parts means higher availability</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Integrated power supply in base</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 15” or 12” Touch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Flat Front Projected Capacitive touch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Versatile mount options</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• New Gen Intel® Processor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Quad Core – N3160</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• DDR3 Memory Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Power efficient</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>• Integrated options–Scanner, MSR, UV light</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 2x20 or LCD Customer displays (10” or 15”)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# P1235/P1535: Connectivity

<table>
<thead>
<tr>
<th>Ethernet</th>
<th>2x RJ45, 12v RTS, 5v DTR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial</td>
<td>3x RJ12, 12v</td>
</tr>
<tr>
<td>Cash Drawer</td>
<td>RJ12 24v - (optional Y cable for dual 12v or dual 24v)</td>
</tr>
<tr>
<td>USB 3.0</td>
<td></td>
</tr>
<tr>
<td>12V USB</td>
<td></td>
</tr>
<tr>
<td>2x Video</td>
<td>HDMI (adapter to DVI)</td>
</tr>
<tr>
<td>Expansion Options</td>
<td>24V USB + 2x RJ12 Serial</td>
</tr>
<tr>
<td></td>
<td>USB + 2x RJ12 Serial</td>
</tr>
<tr>
<td></td>
<td>Large pwr supply</td>
</tr>
<tr>
<td></td>
<td>Small pwr supply</td>
</tr>
</tbody>
</table>

DisplayPort (locking/cust display)
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PX10 / PX15 POS
New “PX10” Overview

- 10.1” Full HD LED LCD (16:9)
- Projective Capacitive Touch
- Latest Intel CPU – Dual-core
- 4GB or 8GB RAM;
- 32GB, 64GB, 128GB storage
- Fanless design
- Tilt hinge
- Windows 10 IoT 64bit, Android

- **Ports:** CashDraw, Ethernet, 1xUSB-C, 2xUSB-A, 1xRJ45 Serial

- **Options:**
  - MSR, scanner, port expansion cable, battery, wireless. *Future: Biometrics, 2x20, 2x20DB*
- 7” Customer Display

**FIT-FOR-PURPOSE – DESIGNED AS POS TERMINAL, NOT BOLTED TOGETHER TABLET. PURPOSE BUILT.**
PX Overview

I/O Bottom of Base
Integrated 7” Display
Remote 10” Display
Battery Add-On on Top of Base
Integrated Scanner Front or Back Mount
Port Expansion
Remote 7” Display
<table>
<thead>
<tr>
<th><strong>PX10/PX15 Connectivity</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethernet</strong></td>
</tr>
<tr>
<td><strong>Serial</strong></td>
</tr>
<tr>
<td><strong>Cash Drawer</strong></td>
</tr>
<tr>
<td><strong>USB 3.0</strong></td>
</tr>
<tr>
<td><strong>USB Type C</strong></td>
</tr>
<tr>
<td><strong>Sim Card Reader</strong></td>
</tr>
<tr>
<td><strong>Expansion Option</strong></td>
</tr>
</tbody>
</table>
PX15 coming in Q1 2019

15.6” screen

SAME SLEEK DESIGN BUT LARGER SCREEN
# NCR Aloha Mobile Ordering Solutions

## ALOHA POS

<table>
<thead>
<tr>
<th>NCR 7779 Tablet</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.3”/10” semi-rugged tablet</td>
</tr>
<tr>
<td>• 1900x1200 WUXGA</td>
</tr>
<tr>
<td>• Quad-core z7345, BT-T</td>
</tr>
<tr>
<td>• Win10 64bit</td>
</tr>
<tr>
<td>• Intg’d MSR, e355 options</td>
</tr>
<tr>
<td>• Future: 2D, external hot swap battery options</td>
</tr>
</tbody>
</table>

## ALOHA MOBILE (AMOB)

<table>
<thead>
<tr>
<th>NCR Orderman7</th>
<th>iOS Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>7th gen order &amp; pay purpose-built device</td>
<td></td>
</tr>
<tr>
<td>• 5” Android</td>
<td></td>
</tr>
<tr>
<td>• 2D, MSR options</td>
<td></td>
</tr>
<tr>
<td>• Hot swap battery</td>
<td></td>
</tr>
<tr>
<td>Third-party hardware</td>
<td></td>
</tr>
</tbody>
</table>
NCR Tablet
8IN and 10IN

Specifications

1. HD Display Options – 8.3” and 10.1”, 1920x1200 px
2. Projective Touchscreen – Multi-touch, pen, and glove support
3. Intel Baytrail T Chipset – Quad Core CPU Z3745
4. Memory and Storage - 4 GB DDR3, 64 GB SSD standard
6. Interfaces – Full-size USB2.0, audio jack 3.5mm, μUSB for charging
7. Radios - WiFi, BT, NFC,
8. Cameras – Main 8MP, Front 2MP
9. Sensors – Ambient light, proximity, E-compass, accelerometer, gyro
10. Rugged – Impact Resistant from 1m, Operating temp -10C to +50 C
11. Security – Kensington Lock feature
12. Water Resistant – IP65 rated (payment accessories not rated)
13. Replaceable Battery – Up to 6hrs (8IN) and 7.5hrs (10In) continuous
14. Payment Device Holders – Verifone e355

Designed for Vertical Markets
Longevity: available until end of 2020
Extended Temperature Range
## Docking options for POS / Kiosk operation

<table>
<thead>
<tr>
<th>Charge Only</th>
<th>Full I/O</th>
<th>ENS Genesis™</th>
<th>ArmorActive RapidDoc™</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
<tr>
<td>- Fixed angle</td>
<td>- Fixed angle</td>
<td>- Tilt / swivel</td>
<td>- Widest tilt / Swivel</td>
</tr>
<tr>
<td>- Rapid charge (0-90% in 2hrs)</td>
<td>- 3x USB</td>
<td>- Keylock option</td>
<td>- RFID/SW security</td>
</tr>
<tr>
<td>- 4-tablet charger</td>
<td>- LAN</td>
<td>- 2x USB</td>
<td>- 6x USB, LAN</td>
</tr>
<tr>
<td>- HDMI</td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

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**PLUS POWERED PERIPHERAL HUB FOR 12V, 24V CONNECTIVITY**
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NCR Kiosk overview
Kiosk Hardware
Small to Large Format

- NCR Hardware offers different sizes to meet different needs
- Stand, wall, pole, floor mounts

Range of sizes 10” to 32”
Self Order Station - PX10
**SelfServ Kiosk Family**

**SelfServ XK7**
- Interactive Kiosk
- 15” 18.5” or 21.5” P-Cap Touch
- Pedestal, Wall or Countertop

**SelfServ 90**
- Credit / Debit Self Checkout
- 15” P-CAP Touchscreen
- Pedestal, Wall or Countertop

**SelfServ XK32**
- Interactive Kiosk
- 32” PCAP Touchscreen
- Integrated peripherals

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Self Order Kiosk
XK32 Hardware Overview

- 32” P-Cap Display
- XR7 motherboard
- NCR receipt printer
- EMV Payment (mount only)
- NCR Scanner option
- uNav ADA keypad option
- Windows 10
- Single and Dual sided configurations
- Multiple mounting options (floor, ceiling and wall)
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NCR Printer
NCR 7199 – Top or Front paper exit
NCR RealPOS 7199 Thermal Receipt Printer

THE SLEEK LOOK YOU DESIRE WITH THE PERFORMANCE, RELIABILITY, AND SIZE YOU REQUIRE.

Performance Increase
- 14 inches per second (350mm/per second) (105 lines per inch)
- 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

Enhanced Flexibility
- 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)

Improved Usability
- One hand cover open
- Fool proof power connector insertion
- Visual understanding of error (Multi-color LED)
- USB Thumb Drive (User friendly way to change print config and flash firmware)

THE SLEEK LOOK YOU DESIRE WITH THE PERFORMANCE, RELIABILITY, AND SIZE YOU REQUIRE.
NCR Site Controllers

**S500-MT**
Mid-Tower form factor back office Site Controller with multiple drive and expansion options.
- 18" x 8" x 17"
- Site Controller or Pro OS
- Quad and Dual Core Options

**S500-SF**
Small form factor back office Site Controller with multiple expansion options.
- 5.5" x 16" x 13"
- Site Controller or Pro OS
- Quad and Dual Core Options

**N4000**
Smallest form factor, hardened, solid state, fit-for-purpose back office Site Controller. Fanless.
- 13" x 9" x 3.5"
- Site Controller 2016 or Win 10 Pro OS
- Hexa and Quad Core options
Kitchen production systems
NCR Bump Bar
The next-generation controller for more precise kitchen production

- Solid state design / No vent holes
- Small form factor
- Intel Braswell Celeron dual core processor
- Windows 7 and Windows 10 Embedded
- Storage – 32 GB or 64 GB SSDs
- RAM – 4 GB or 8 GB
- Multiple points of connectivity
  - 3 USB 3.0, 2 Serial (12V power)
  - 10/100/1000 Ethernet
  - Audio line out 3.5 mm
- Status LEDs & power button on front panel
- DVI-I video; DVI to VGA adapter included
NCR Site Controllers
Interact efficiently with kitchen production systems

- Designed for the kitchen environment
- Serial interface
- 16 programmable keys
- Speaker with three volume levels for order alerts
- Integrated mounting bracket
- Removable end cap for quick access to serial connector and key legend
NCR KT2200 Kitchen Touch Display

New stainless steel touch solution for kitchens

- 21.5” stainless steel touch display (LED back-lit LCD)
- Widescreen 16:9, Full HD 1920x1080
- PCAP touch technology – multi-touch & gesturing
- Designed for the kitchen environment - moisture, gloves
- Integrated speaker
- DVI and VGA
- Optional quick release bracket for KC4 kitchen controller
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Digital Menu Hardware for Vitalcast
Failover Architecture

Eliminates down screens due to player failure
NEW NCR MP600 Android Media Player

SPECS
- Dual-core+ iMX6 CPU
- Dual-output 1080p (HDMI)
- Built-in network switch for daisy-chaining
- RS-232 for panel control
- RGB sensor for proof-of-play at the display

FEATURES
- Small footprint, fanless
- Power over Ethernet
- Failover capability
- Images / Videos
- Rendered Text (fonts)
- Unlimited Scheduling
- Control via web admin
**Advanced Exchange Depot**

**Functional Failure**
Includes loose components, port and board failures, processor failures, power supply failure, etc.

**Normal Wear**
Includes normal wear on all parts, including worn touch glass, display failures associated with the back-light of the LCD panel, etc.

**Process Breakdowns**
Includes any breakdowns in the service process by NCR or the Client, including no fault found, software errors, configuration errors, etc.
Exchange

- Replacement equipment is better than the original product
- 1st time fix rate of 95%
- Once in 5 years
- Extends the useful life

Whole Unit
- Core to Methodology

Return To Service
- Quicker
- Higher Success
## Support Model Value Statement

### RESULTS

<table>
<thead>
<tr>
<th>Refurbishment</th>
<th>Minimal Site Impact</th>
<th>Consistent Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit tested as a whole</td>
<td>Reduced site down time</td>
<td>Return rate does not increase over time</td>
</tr>
<tr>
<td>Complete unit break down,</td>
<td>Increased First Time fix</td>
<td>1.4 visits versus 7 visits, in a break fix</td>
</tr>
<tr>
<td>piece parts tested individually</td>
<td>Software and OS errors are resolved</td>
<td>model, over 8 years</td>
</tr>
<tr>
<td>Engineering Change orders</td>
<td>Higher site uptime</td>
<td>Lower overall return rates</td>
</tr>
<tr>
<td>performed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wear items proactively</td>
<td></td>
<td></td>
</tr>
<tr>
<td>replaced</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cosmetic refurbishment</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### OPERATIONS

- Reduced site down time
- Increased First Time fix
- Software and OS errors are resolved
- Higher site uptime

### END USER

- Return rate does not increase over time
- 1.4 visits versus 7 visits, in a break fix model, over 8 years
- Lower overall return rates

### TCO

- Minimal Site Impact
- Consistent Performance
Thank You!

Questions?
Orderman 7 Handheld
Mobile POS Terminal

- 5.0” Display – Hi definition
- Capacitive Touchscreen
- Integrated WiFi and Bluetooth
- Integrated Orderman Secure Radio
- Impact Resistant - Metal Chassis
- Water Resistant – IP65 rated
- Removable Battery
- Physical Side Buttons
- Two capacitive front buttons
- One physical front button
- Lanyard
- NFC for Tap-To-Go
- 125Khz RFID reader
- Single & multi-service cradles
Hardware Innovations

Extensible: Providing even greater capabilities for the operation

- Two digital out display ports for customer display options
- Integrated scanner option for barcodes, QR codes
- Wall Mount / Pole Mount for flexible mounting
- Optional built-in camera, built-in wireless, and expansion cards
- High connectivity to add peripherals
- Easy and Secure SSD replacement
All in one connectivity overview

Designed for retail peripherals

- 3 x 12V USB, 1 x 24V USB, 2 x USB 3.0 ports
- 1 serial port standard (RJ45 0, 5, 12V)
- Cash drawer port (supports dual drawers - 12 or 24 volt)
- Ethernet
- Dual Display port
- Optional 3 x RS232 HUB (2 x RJ50 and 1 x DB9 powered)
<table>
<thead>
<tr>
<th>Product (Launch Date)</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q1/Q2</td>
<td>Q3/Q4</td>
<td>Q1/Q2</td>
</tr>
<tr>
<td>XR7</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Core i5 / i3 / Cel</td>
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<td></td>
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<tr>
<td>(Q2 2016)</td>
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<td></td>
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<tr>
<td>P1532 / P1535</td>
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<tr>
<td>(Q2 2016)</td>
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<tr>
<td>P1235</td>
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<tr>
<td>P1132 / PX10 / PX15</td>
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<tr>
<td>(Q2 2016)</td>
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</tbody>
</table>

- **XR7 Plus Gen6 CPU refresh**
- **Next Gen**

Windows 10 IoT Enterprise 2016 LTSB (32bit or 64bit) | 10/14/2026
NCR POS
Purpose built for retail

COMPREHENSIVE TESTING

- Environmental testing
  - Shock and vibration
  - Temperature cycling
  - Liquids and dust
  - Packaging and drop testing
  - Electro-static discharge (ESD) up to 15kV

- Platform integration testing
  - Multiple operating system environments

- Regulatory compliance
  - Product safety (UL/TUV, CE, CCC, CU-ETA)
  - EMC (FCC, CE, VCCI)
  - Weights & measures

Extensive testing beyond legal and industry standards to meet the demands of retail
Recovery Tool
Extended product and support lifecycle

- 4-5 year production life (typical)
- 5-7 year hardware support (post production)
- Select components with extended availability
- Chipsets / processors selected from Intel®’s embedded roadmap – typically 7 year life versus 12-18 months
- Stable technology platform with timed release of product changes
- Enables a consistent operating system image over long deployment timeframes to reduce support costs
NCR POS

- Recover using factory saved image
- Use Recovery Partition to perform on-site recovery
- Image capture and restore from local drive, network, or USB drive
- Physical button on terminal
- Auto backup scheduling

Access to Recovery Button

Capture/Apply

.WIM File
XML
Factory
Site
User
NCR Hospitality POS Terminal Portfolio
Our offerings in 2018

XR7 Plus
- 15” or 18.5”
- Flat Front Touch
- High Connectivity
- High Performance

P1535 / P1235
- 12” or 15”
- Flat Front Touch
- High Connectivity
- Quad Core

New PX10 and PX15
- 10.1” and 15.6”
- Flat Front Touch
- Small Footprint
- Limited Connectivity

P1532
- Fanless
- Value Touch
- Dual Core
- Full Connectivity
## NCR POS Portfolio

### Modular
- **XR8**
  - Full Size POS
  - Intel® Gen 6 / 7
- **XR8C**
  - Compact Chassis
  - Intel® Gen 6 / 7
- **XR6**
  - Compact POS
  - Intel® Gen 4

### Retail Integrated
- **XR7**
  - (15/18/21)
  - All-in-one
  - Intel® Gen 6 / 7
- **XR5** (fan-less)
  - All-in-one fan-less
  - Braswell Quad Core
- **XR4** (fan-less)
  - Value compact
  - Braswell Dual

### Hosp Integrated
- **XR7 Plus**
  - (15/18/21)
  - All-in-one
  - Intel® Gen 6 / 7
- **RealPOS XR7 15”**
  - All-In-One Multi-touch
  - Intel® Gen 4
- **P1235 / P1535 12”/15”**
  - All-In-One Fan-less
  - Braswell Quad Core
- **EX15 15”** (China/Europe)
  - All-In-One Fan-less
  - J1900 Quad Core
- **PX10/PX15**
  - Tablet style Fanless POS
  - Apollo Lake
- **PX10/PX15**
  - Tablet style Fanless POS
  - Apollo Lake
- **P1532 15”**
  - All-In-One Fan-less
  - Braswell Dual Core
## NCR Site Controllers Q1 2019

### S500-MT

**CPU**
- Intel i7-6700 Quad Core (4.0 GHz)
- Intel i5-6500 Quad Core (3.6 GHz)
- Intel i3-6100 Dual Core (3.7 GHz)
- Intel Pentium G4400 Dual Core (3.3 GHz)

**RAM**
- 4GB Standard, 16GB Max DDR4 2133 MHz
- Optional 8GB, 32GB Max DDR4 2133 MHz

**Storage**
- Std 500GB or 2TB 7200rpm SATA hard drive
- Std 120GB SATA SSD
- Optional additional drives (4 total)

**Features**:
- Multiple removable drives
- Locking front bezel standard
- Optional 4U rack mount kit
- On-board RAID 0, 1, 5 and 10
- DVI-I or 2 x HDMI
- Optional Modem, Serial, Parallel card
- USB 3.0 (Qty. 10) and 2.0 (Qty. 4)
- PCI and PCIe expansion ports
- 2 Gigabit NIC (1 AMT capable)
- CD-RW/DVD-RW

### S500-SF

**CPU**
- Intel i7-6700 Quad Core (4.0 GHz)
- Intel i5-6500 Quad Core (3.6 GHz)
- Intel i3-6100 Dual Core (3.7 GHz)
- Intel Pentium G4400 Dual Core (3.3 GHz)

**RAM**
- 4GB Standard, 16GB Max DDR4 2133 MHz
- Optional 8GB, 32GB Max DDR4 2133 MHz

**Storage**
- Std 500GB or 2TB 7200rpm SATA hard drive
- Std 120GB SATA SSD
- Optional additional HDD (2 total)

**Features**:
- Mounting Bracket
- Optional locking cover
- On-board RAID 0 and 1
- DVI-I or 2 x HDMI
- Optional Modem, Serial, Parallel cards
- USB 3.0 (Qty. 10) and 2.0 (Qty. 4)
- PCI and PCIe expansion ports
- 2 Gigabit NIC (1 AMT capable)
- CD-RW/DVD-RW

### N4000

**CPU**
- i7-8700 Hexa Core (4.6 GHz turbo) (future)
- i5-8400 Hexa Core (4.0 GHz turbo)
- i3-8100 Quad Core (3.6 GHz)

**RAM**
- 8GB Standard, 32 Max GB RAM DDR4 2400/2133 MHz

**Storage**
- 120GB M.2 MVNE SSD Standard
- 120GB and 240GB SSD SATA Optional
- 3 Drive Configuration Option Available

**Features**:
- Fan-less
- 2U Rack Mount
- Wall mount Bracket
- Dual Display Port (DP++) Standard
- Optional HDMI and DVI adapters/dongle
- 2 USB 2.0 and 4 USB 3.1
- 2 LAN Controllers
## Support Model Value Statement

### RESULTS

<table>
<thead>
<tr>
<th>REFURBISHMENT</th>
<th>MINIMAL SITE IMPACT</th>
<th>CONSISTENT PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit tested as a whole</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete unit break down, piece parts tested individually</td>
<td></td>
<td></td>
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<tr>
<td>Engineering Change orders performed</td>
<td></td>
<td></td>
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<tr>
<td>Wear items proactively replaced</td>
<td></td>
<td></td>
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<tr>
<td>Cosmetic refurbishment</td>
<td></td>
<td></td>
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<tr>
<td>Reduced site down time</td>
<td></td>
<td></td>
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<tr>
<td>Increased First Time fix</td>
<td></td>
<td></td>
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<tr>
<td>Software and OS errors are resolved</td>
<td></td>
<td></td>
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<tr>
<td>Higher site uptime</td>
<td></td>
<td></td>
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<tr>
<td>Return rate does not increase over time</td>
<td></td>
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<tr>
<td>1.4 visits versus 7 visits, in a break fix model, over 8 years</td>
<td></td>
<td></td>
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<tr>
<td>Lower overall return rates</td>
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<td></td>
</tr>
</tbody>
</table>

### OPERATIONS

- Consistent Performance
- Minimal Site Impact
- Refurbishment

### END USER

- Consistent Performance
- Minimal Site Impact
- Refurbishment

### TCO

- Consistent Performance
- Minimal Site Impact
- Refurbishment
Command Centre

PCI compliant remote support tool

View status of devices at sites
• POS terminals
• Kitchen displays
• Manager’s PC

Alerts on site based issues

Detailed audit trail & reports
EX 15 overview
Great performance at a value price

- Compact all-in-one design with rugged die-cast aluminum chassis
- 15” TFT LED back-lit display, 4:3 aspect ratio, 1024 x 768 resolution
- Sleek zero-bezel display with multi-touch (projected capacitive) support. No calibration required
- Intel® J1900 Quad-Core Celeron processor
- DDR3L-1600 Memory
  - 4GB standard, 8GB Maximum, one slot
- Disk Drive Options
  - 120GB Solid State Drive (SSD) – recommended
  - 500GB Hard Disk Drive (HDD)
EX 15 Connectivity
Designed for retail and hospitality peripherals

External I/O row connectivity
• 3 x USB 2.0 ports
• 1 x USB 3.0 ports
• 4 serial RS232 port standard (RJ50)
• Cash drawer port (supports dual drawers - 12 or 24 volt)
• Ethernet
• VGA Display, Audio Out
• External SATA / USB Port with Power
EX 15 Configuration Options

Integrated peripherals & customer displays

- Integrated peripherals
  - Magnetic stripe reader
  - Dallas i-button Reader
  - Addimat Key Reader

- 2 x 20 LCM Customer Display
  - International, and Simplified Chinese Options, RS232 Interface

- 10.4" LED Back-lit 2nd Display
  - 800 x 600 Resolution, VGA Interface

- Mount options:
  - POS stand
  - Wall-mount VESA 75 x 75mm