



## Request for Proposals CLC202306

### Sports Betting DFS Solution System Services

#### ADDENDUM #4

#### UPDATED: CLC Responses to Proposer Questions

1. How many actives and total online sports accounts are currently in CLC's database, both lifetime and in the last six months?

**CLC Response:** See the spreadsheet accompanying these responses, entitled "KPIs," which contains information covering the most recent 6 months. Additionally, there are 31,433 total online accounts.

2. Would the Successful Proposer be allowed to use online affiliates for marketing and customer acquisition purposes?

**CLC Response:** CLC has initiated efforts and is interested in continuing to get this changed, but currently affiliate marketing (generally, paying a third party a cost per acquisition fee or revenue share) is prohibited under Applicable Law.

3. Can the Successful Proposer advertise the CT Lottery online sports betting product at the retail locations?

**CLC Response:** Yes. Sports betting retail locations and traditional lottery retailers advertise online sports betting product.

4. Is the CLC willing to delete the requirement for DFS and Play For Free as part of this RFP?

**CLC Response:** See Addendum 2 to this RFP.

5. As related to Part II, Subpart A (page 2), can CLC please provide retail sports wagering sales figures and monthly performance by location? (Handle, GGR, # of bets).

**CLC Response:** Please see the spreadsheet accompanying these responses, entitled "Retail Sales Metrics."

6. As related to Part II, Subpart A (page 2), how many customers are currently in CLC's sports betting database, and how does CLC plan to let the Successful Proposer target these customers (e.g. share information with Successful Proposer and Successful Proposer directly contact or CLC directly contact)?

**CLC Response:** See Response to Question 1 regarding customers in the sports betting database. Either CLC or its incumbent operator will share customer data with the Successful Proposer directly. If accounts cannot be seamlessly transitioned from the incumbent operator to the Successful Proposer, CLC's expectation is that the Successful Proposer will do primary outreach to these customers so that they create online sportsbook accounts with the Successful Operator. CLC may also market to these customers.

7. Please provide the monthly breakdown of registered players since go-live.

**CLC Response:** See Response to Question 1.

8. Please provide the average monthly conversion rate (register to first-time deposit).

**CLC Response:** Please see the corresponding spreadsheets accompanying Addendum 4. At this time, no further information will be provided. The successful proposer will however be provided all necessary information to effectuate the contract negotiation process.

9. Please provide the average number of monthly active players (placed at least one bet within this month).

**CLC Response:** See Response to Question 1.

10. Please advise what the average monthly retention rate is.

**CLC Response:** Please see the corresponding spreadsheets accompanying Addendum 4. At this time, no further information will be provided. The successful proposer will however be provided all necessary information to effectuate the contract negotiation process.

11. As related to Part II, Subpart B (page 4), what is the expected implementation period for retail, and what are the expectations of RSI for a seamless transition? Is there a CLC preference to keep any retail spaces as status quo as possible to limit disruptions. If so, which retail locations? Also, is there a CLC preference for the retail operations to remain with Sportech or a handoff to Successful Proposer for consistency?

**CLC Response:** CLC expects retail to launch simultaneously, or near-simultaneously, with online, understanding that a seamless retail transition is unlikely. Once all 15 locations are

in operation, CLC expects to be able to reassign the lowest performing location, annually. See Part 2.B of the RFP for options for participation in future retail locations.

12. As related to Part II, Subpart C (page 4), what is the acceptable range for Go-Live Date during Fall 2023?

**CLC Response:** Proposers should respond with a date or range that is possible (no less specific than the month), however, the CLC is expecting to launch with the Successful Proposer no later than Q4 of 2023.

13. As related to Part III, Subpart C Section 5 (page 12), would CLC accept an alternate arrangement (e.g. surety bond) in lieu of a parent guarantee?

**CLC Response:** There are certain contract provisions and proposal requirements that are mandatory. Where possible, CLC may consider requests for modification and such requests will be considered and negotiated with the Successful Proposer.

14. As related to Appendix B, Section 2, Subsection g (page 19), does CLC have preferences on Marketing Channels the Successful Proposer focuses on (e.g. digital, out-of-home, retail vs. online)?

**CLC Response:** Currently, through the incumbent operator's and CLC's efforts, all channels are used for online and retail. Moving forward, we have no preferences and we expect each company to bring forth its proposals and suggestions.

15. As related to Appendix B, Section 2, Subsection j (page 19), can CLC please clarify what is considered as Technical/IT Assistance (e.g. customer service)?

**CLC Response:** Technical/IT Assistance would include, but is not be limited to, support for resolving retail system issues (i.e., a solution like Slack, or another channel), phone, and email. Customer service (Subsection i), meaning the Successful Proposer's direct support to its sports betting customers (as opposed to CLC or its retail partners or employees), would include, but is not be limited to, phone, chat, email support.

16. Please provide the technical specifications (e.g., CPU, disk, peripherals, operating system, middleware) of the available SSBTs and OTC.

**CLC Response:** See attached technical specifications for retail hardware, entitled "Novomatic Actionbook," "UnitedTote Whizz," Suzohapp OTC," and "Postronic OTC."

17. Please provide the average monthly bet per touchpoint (Web, Mobile, SSBT, OTC).

**CLC Response:** Please see the corresponding spreadsheets accompanying Addendum 4. At this time, no further information will be provided. The successful proposer will however be provided all necessary information to effectuate the contract negotiation process.

18. What is the revenue share scheme (% on Hold/GGR) that CLC has with the current Operator?

**CLC Response:** CLC expects each Proposer to bring forth a revenue share proposal that works for both them and CLC.

19. Please describe the current bonus types offered in the retail solution (SSBTs & OTC).

**CLC Response:** There is no retail bonusing currently.

20. Please also provide the handle breakdown between SSBTs and OTCs.

**CLC Response:** In March 2023, approximately 10% of handle was placed on OTCs, and approximately 90% on SSTs.

21. Please provide the ratio % of single vs. parlay bets, pre-game vs. in game, and relevant holds.

**CLC Response:** Please see the corresponding spreadsheets accompanying Addendum 4. At this time, no further information will be provided. The successful proposer will however be provided all necessary information to effectuate the contract negotiation process.

22. Section: Part IV EVALUATION AND NOTICE OF AWARD, B) PRELIMINARY NOTICE OF AWARD; THE CONTRACT, Page 14 *“Any contract the CLC may award as a result of this RFP will be based upon this RFP, including all attachments, any addenda, and some or all portions of the Proposal submitted by the Successful Proposer, and will include provisions required by the CLC and other mutually agreeable terms and conditions. The CLC reserves the right to award the contract without further negotiations, or negotiate some or all terms and conditions of the contract. A Proposer must not submit a Proposal assuming that there will be an opportunity to negotiate any aspect of the contract, and any Proposal that is contingent on the CLC negotiating with a Proposer may be rejected.”*

- By submitting a response are the provisions in Appendix D deemed accepted?
- To what extent is there room for negotiation on these terms?
- Is any commentary or counter proposals expected in relation to the provisions in Appendix D for the submission?
- Are we able to utilize our own contract with the state which is specifically suitable for the services we offer?
- Would the CLC be able to share any scoring rubric?

**CLC Response:** There are certain contract provisions and proposal requirements that are mandatory. Where possible, CLC may consider requests for modification and such requests will be considered and negotiated with the Successful Proposer. The CLC does not use a scoring rubric nor does it grade Proposals numerically. CLC will negotiate a final contract with the Successful Proposer.

23. CLC's April 21, 2023 RFP Addendum #2 indicates that CLC is no longer requiring the offering of daily fantasy sports ("DFS") as a requirement to win the RFP; instead, the addendum presents three options: (1) DFS; (2) an alternative product/modified DFS product; or (3) none of the above.

- Does CLC have a preference as to which option is chosen?
- Would "regular" fantasy sports (i.e., season-long fantasy sports) count as an allowable "alternative product" or a "modified DFS" product that could satisfy Option #2?
- What types of fantasy sports would meet the requirement (DFS, other?)
- What systems/processes does CLC have to ensure no 18 to 20-year-old DFS patrons improperly get access to the 21+ sports betting product?
- Do the DFS and online sports products require a shared wallet?
- If yes, are there requirements for user registration between the products?
- Can other technical requirements (i.e., PAM, Risk Management, etc.) live separately in the DFS platform and sports platform?
- Could the look and feel of the DFS and online offerings be separate (different apps, brands, etc.)?
- Is the intention for the rewards and player tracking to be standard across DFS and online sports?

**CLC Response:** The CLC is open to any Proposal that adds value to the CLC (and the Successful Proposer) and is consistent with Applicable Law.

24. Would the winning operator be able to share patron wallet funds from other states (single account, multiple states (see RFP pg. 19))?

**CLC Response:** Yes.

25. Will CLC allow funding of accounts by credit card? To the availability/effectiveness of "single wallet" (see RFP pg. 19) may be impacted by whether all funding sources are allowed.

**CLC Response:** Applicable Law permits the funding of accounts through a single credit or debit card.

26. We understand the Connecticut sports wagering legislation prohibits operators from "directly" marketing or promoting a physical casino, "including through awarding of players' points or free play, promotions, or other marketing activities." Can you give examples

where awarding rewards, free play, promotions, or other marketing activities would constitute “direct” marketing or promotion of a physical casino?

**CLC Response:** Proposals need to include recommendations for loyalty solutions that are consistent with Applicable Law, especially if such solution is a national loyalty program.

27. Appendix B, Part 1, Page 19 – Where the RFP proposes a technical solution to meet a business requirement, can we propose an alternative technical strategy that meets the same business need, but better fits with our technical architecture?

**CLC Response:** Yes, consistent with Applicable Law and the expectation is that the Proposer do so clearly.

28. Sports Wagering Technical Specifications, Appendix A, Part A.5.4 – Can you confirm the interest is in running a contest in which patrons are selecting games (either against the spread, or to win) against each other?

**CLC Response:** See Addendum 2 to this RFP.

29. Sports Wagering Technical Specifications, Introduction, Part 2.0.0 – Please provide more detail on “collect patron information prior to the registration of a patron account.” How far back history is required?

**CLC Response:** CLC’s interpretation of this Question is about the Successful Proposer collecting information from patrons prior to launch. We expect this opportunity for the Successful Proposer. More details regarding this will be shared with the Successful Proposer.

30. Appendix F, Retail Sports Betting Locations Map – Are there communication links already in place, and paid for by the lottery? What is the bandwidth, and do any of them have redundancy built in?

**CLC Response:** Telecom services are different per town and we use services that are locally available.

31. Part II, Section I, Number 6, Page 6 – Please confirm what is meant by CLC can “arrange to receive products and services from other providers, or obtain or perform itself the products and services, sought under this RFP,” given that the paragraph states that these actions can be taken “at any time.” Assumedly this reference would apply only during the RFP process and not be part of any Agreement – or at least not without limitation – please advise.

**CLC Response:** Applicable Law permits CLC to have one and only one online gaming operator, and your proposal should be crafted as such. CLC cannot envision a situation

where it would bifurcate services. The Parties' negotiated contract would guide the relationship between CLC and the Successful Proposer moving forward.

32. Part III, Section B, Page 8 – Is the limitation of liability and indemnification of the CLC relation to the disclosure of Proposer Confidential Information intended to cover even circumstances where Proposer followed the criteria set forth in the paragraphs above, i.e. marking the information “CONFIDENTIAL,” and after notification from the CLC of a request for Proposer’s Confidential Information, Proposer submitting a written objection to such a disclosure?

**CLC Response:** There are certain contract provisions and proposal requirements that are mandatory. Where possible, CLC may consider requests for modification and such requests will be considered and negotiated with the Successful Proposer.

33. Part IV, Section B, Page 14 – Can you provide some clarity on the *“The CLC reserves the right to award a contract without further negotiations...”* and *“A Proposer must not submit a Proposal assuming that there will be an opportunity to negotiate some or all of the conditions of the contract?”* Is the intention here to say that CLC could potentially put an Agreement in front of a Successful Proposer and not allow for any modifications whatsoever? And if so, are there any circumstances where that would be more or less likely? Alternatively, is the reference to “contract” here intended simply to note that the terms and components of the award and core elements of the successful proposal would be non-negotiable, not the terms of a resulting Agreement/written document? The undefined term “contract” is used throughout the document and seems to reference both the more general key terms of an accepted proposal as well as the physical writing/final Agreement between the parties.

**CLC Response:** There are certain contract provisions and proposal requirements that are mandatory. Where possible, CLC may consider requests for modification and such requests will be considered and negotiated with the Successful Proposer.

34. Appendix D, I, M, Page 31 – Since the threshold for liability in this section may be low as CLC’s simple allegation that Successful Proposer is at fault, can you please specify whether this section would be one that CLC would consider to be subject to cure per Appendix D, I, Section G?

**CLC Response:** There are certain contract provisions and proposal requirements that are mandatory. Where possible, CLC may consider requests for modification and such requests will be considered and negotiated with the Successful Proposer.

35. Appendix E, Retail Equipment Inventory – The CLC has approximately 160 SSTs (Novomatic Actionbooks and UnitedTote Whizz) and approximately 30 OTCs (Suzohapp and Postronic), either currently deployed at retail locations, or in its possession for future retail

deployments. Would the Successful Proposer be required to utilize this equipment or bring in its own?

**CLC Response:** The Successful Proposer may either utilize this equipment or bring in its own. See Part 2.B.4 of the RFP (p.6).

Month	Account Registrations	KYC Registrations	First Time Deposits	Depositors	Deposits	Number of Bets	Unique Customers
April	477	288	187	332	591	7,869	1,026
March	792	508	355	364	653	8,096	1,103
February	994	624	383	355	617	7,696	1,083
January	1,128	828	509	385	644	8,745	1,288
December	951	595	321	372	628	7,915	1,294
November	1,040	743	487	374	636	8,975	1,301

Data in columns B, C and D are cumulative numbers for each respective month.

Data in columns E, F, G and H are average numbers by day for each respective month.



# NOVOMATIC ActionBook™

## THE ULTIMATE SPORTS BETTING KIOSK



### FEATURES

- Mainboard with Intel® Celeron® Processor J4105 (QC @1.5GHz / 2.5GHz), integrated Intel® UHD Graphics 600 (12EUs @750MHz), RAM 8GB (2x DDR4 Ram 4GB), HDD 128GB SSD (can be provided with Windows 10 license or without license for Linux use)
- Screens: Full HD with Iitek Multi-Touch-V5000
- Ticket printer: Ithaca Epic 880, EuroCoin EP802 TMP, EuroCoin EP802 TM Roll-Printers and/or Ithaca 950, Futurelogic Gen 2/5 TiTo style printers (roll printer and TiTo style printers can be used parallel)
- UPS CyberPower (optional)
- Barcode scanner
- Universal Card Reader for use with magnetic cards, chip cards and RFID reader
- Flexible use of sports betting software

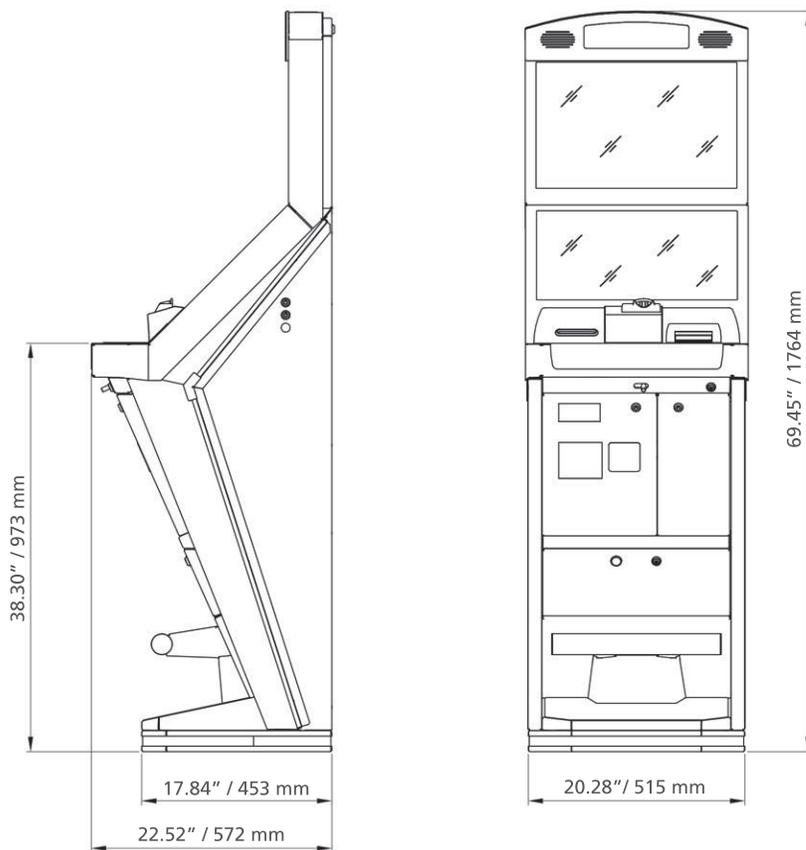
### NOVOMATIC MIDDLEWARE

- Door monitoring
- Key switch
- Bill acceptor / validator: JCM UBA 10, MEI SC83/66
- Coin validator NRI G13 (optional)

Please contact our Sports Betting Solutions team to provide a self-service betting kiosk that is intuitive and quick to market.



Machine type	NOVOMATIC ActionBook™	
Dimensions	Width	20.28" / 515 mm
	Height	69.45" / 1764 mm
	Depth	22.52" / 572 mm
Weight	approx. 286.6 lb / 130 kg	
Power supply	230 V / 120 V 50 Hz / 60 Hz 1.6 A / 3.2 A	
Power consumption	250 W	
Fuses	3.15 A delay 3 A delay 5 A delay 10 A delay	
Ambient temperature	50 - 95 °F / 10 - 35 °C	
Ambient humidity	30 - 80% (non-condensing)	



**NOVOMATIC ActionBook™**  
THE ULTIMATE SPORTS BETTING KIOSK

**NOVOMATIC**  
Winning Technology

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# Whizz

## Interactive Sports Betting Kiosk

- In stock and ready to ship from our Louisville, KY warehouse
- Software agnostic and easily interfaces with the most popular sports betting platforms
- Sleek and attractive
- Customizable solutions
- 24/7 US-based Help Desk available
- CE & UL certified

The Whizz by United Tote Gaming Services is the perfect self-service solution that provides an interactive sports betting experience for all. Large 32" high-resolution portrait-style screen instantly engages the self-service sports betting player. Highly secure but easily serviceable, the Whizz is designed to maximize functionality for the bettor and operator alike.

### Specifications:

- 32" Interactive, 2K High-Resolution Touchscreen
- Intel i3-8100 3.6 GHz Processor
- 4GB RAM (Max 64GB), 120GB SSD Storage
- MEI SC66 Bill Validator
- Zebra SE2707 1D, 2D Barcode Scanner
- Custom VKP80ii Thermal Printer
- Rear-Mounted Wheels/Handles
- 1 Year Warranty on Major Components



**Contact Us:** **Andy Lonnon** | Director, Sales & Business Development  
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### About United Tote Gaming Services

United Tote Gaming Services is committed to enriching players' experiences to the benefit of all our gaming partners. The cornerstone of our reputation is delivering attractive hardware, strategies, and support solutions to elevate player experience, all while simplifying operational needs.

[www.UnitedTote.com](http://www.UnitedTote.com)



# Whizz

## Interactive Sports Betting Kiosk

Dimensions (H x W x D) 66.5" x 21" x 18.9"

Unit Weight 220lbs (100kgs)

Boxed Weight 264lbs (120kgs)

Stock Color

\*Additional colors available at no cost, minimum quantities apply.

### CPU

<b>Processor</b>	Intel i3-8100 CPU 3.6GHzQuad Core
<b>Operating System</b>	Supports Windows or Linux Operating Systems
<b>CPU Cooler</b>	Low-profile Cooler AK-CCE-7160HP
<b>Memory</b>	ADATA Premier 4GB, DDR4, 2400MHz (PC4-19200), CL17, SODimm Memory, 512 x 16
<b>Internal Storage</b>	ADATA 120GB Ultimate SU650 SSD, 2.5", SATA3, 7mm, 3D NAND, R/W 520/320 MB/s, 75K IOPS or Equivalent
<b>Networking   Communications</b>	LAN RJ45 Gigabit
<b>Aux Ports</b>	2 x USB 3.0 Gen1 at Rear Panel 2 x USB 2.0 at Rear Panel 2 x USB 2.0 at Front Panel Rs232 Front Facing 1 x DP (Display Port) Output 1 x HDMI Output

### HARDWARE

<b>Display</b>	1 x 32" AUO TFT LCD Display, 2k Resolution (2560 x 1440)
<b>Touchscreen</b>	1 x 32" eGALAX, Projective Capacitive, USB 2.0 Compliant
<b>Thermal Printer</b>	Custom VKP80ii Thermal Printer, Thermal Fixed-Head 8 dot/mm Print Speed - 90mm - 120mm/sec Print Width - 80mm Paper Width - 82.5mm Paper Roll Diameter - Max 180mm Integrated Full-Cut Auto Cutter with Presenter Black Mark, Paper Out Sensor, Optional Paper End Sensor USB Connected to PC
<b>Scanner</b>	Zebra SE2707 1D, 2D Barcode Scanner, Code39, Code 128, QR
<b>Bill Validator</b>	MEI SCN66 Bill Validator
<b>Power Supply</b>	Input Voltage: 100V to 240V. RP: 438.10@ RC: 3A

### REGULATORY & ENVIRONMENTAL

<b>Environmental Temperature</b>	Operating: 0 C to 50 C	Storage: -20 C to 60 C
<b>Environmental Humidity</b>	Operating: 5% to 90%	Storage: 5% to 90%
<b>Regulatory Approvals</b>	UL, CE	

## Over-the-Counter Sports Betting Terminal



### High Performance / High Quality Components

- ▶ Intel's 8th gen processor, 4-Core i3-Plus 4GB RAM (up to 32GB), 128GB SSD
- ▶ 15" PCAP touchmonitor
- ▶ CUSTOM P3 thermal roll printer w/ cutter
- ▶ Newland HR3280 scanner
- ▶ 3 year warranty on the computer
- ▶ Global certifications

### Different Form Factors Available with Ease of Integration

- Same computer platform for front and back of house units allows for a seamless experience
- Same manufacturer of displays, scanners, and printers

### Options

- Computer performance and storage
- Card readers, webcam
- Various display sizes
- Rear facing customer displays with or without touch
- Other printers and scanners when required

For your more traditional customer, or in an area where you need controlled betting, allow your cashier to manage all the bets. The SUZOHAPP OTC offering is modern and modular, utilizing the same core component engines as SUZOHAPP's kiosk SBTs to ease the software development, performance, and certification across form factors.

### Standard Configuration and Accessories

Consists of an Intel i3 processor, 15" display, and optional 10" customer facing display via a single cable USB-C connection. The I/O hub includes 7 USB ports (including powered USB), 2 serial ports, and a cash drawer port. Additionally up to 4 integrated peripherals can be added to the display edges (i.e. MSR, EMV cradle, webcam, fingerprint scanner, status light).

### Flexibility

Options include choice of processor (Celeron, i3, i5) with RAM and storage expansion, main display size (15", 15" wide, 17", 21.5"), secondary display (10.1" or 13.3" with or without touch), in countertop or wall mount configuration.

# Technical Specifications

## EloPOS System 15-inch 4:3 Model

Processor	Intel Core™ i3-8100T Processor (6M Smart Cache, 3.10 GHz)
Chipset	Intel H310 Express
Video	Intel UHD Graphics 630
BIOS	AMI
Memory (RAM)	4GB 2666MHz DDR4 SO-DIMM on 1 of 2 slots (expandable to 32GB)
Storage	128GB M.2 SATA SSD, 80 TBW; 256GB M.2 SATA SSD, 160 TBW; Optional - M.2 PCIe (NVMe) SSD for selected SKUs
USB Ports	3 x USB 3.0 (1 on display head, 2 on I/O); 2 x USB 2.0 (on I/O); 4 x Micro USB 2.0 (on display head)
Powered USB	1 x 24V on I/O; 2 x 12V on I/O
Serial Ports	2 x RJ45
Cash Drawer Port	12V/24V Cash Drawer Port on I/O (EPSON Pinout, 24V default; selectable by internal switch)
Ethernet Port	1 x LAN RJ45 (Gigabit)
Wireless Connectivity	802.11 a/b/g/n/ac 2.4GHz and 5GHz; Bluetooth 5.0
Additional Video Out	1 x Full-function USB-C (Power up to 27W, USB 3.0, Display Port)

Audio	2 x 2W internal speakers; 1 x 3.5 mm headset jack
Display	15.0" / 381 mm diagonal, active matrix TFT LED LCD
Touch Technologies	TouchPro® PCAP with up to 10 touches
Power	External 24VDC universal-type power supply brick; AC input voltage: 100-240 VAC; Input frequency: 50-60 Hz; Maximum output power: 180W
Max Power Consumption	i2 Model: 30W; i3 Model: 63W; i5 Model: 78W
Dimensions	With Stand: 14.16" x 15.37" x 8.71" / 359.7 mm x 390.4 mm x 221.3 mm; Without Stand: 14.16" x 11.17" x 3.07" / 359.7 mm x 283.7 mm x 78.1 mm
Temperature	Operating: 0°C to 35°C (32°F to 95°F); Storage: -20°C to 60°C (-4°F to 140°F)
Humidity (non-condensing)	Operating: 20% to 80%; Storage: 5% to 95% (38.7°C max wet bulb temperature)
Regulatory approvals and declarations	UL/cUL, FCC, TUV, CE, CB, Mexico NOM, C-Tick/RCM, VCCI, Argentina S-Mark, CCC
Mounting Options	75mm VESA mount
Warranty	3-year warranty extendable up to 5 years
MTBF	50,000 hours demonstrated

## Newland HR3280 scanner

Image Sensor	CMOS 1280 x 800
Processor	1GHz, X 1500
Illumination	Red LED (625±10 nm) / White LED
Aiming	Green LED
Depth of Fields	EAN 13 (13mil): 45-510mm; Code 39 (5mil): 75-220 mm; PDF417 (6.67mil): 70-215 mm; Data Matrix (10mil): 50-220 mm; QR (15mil): 20-330 mm
Minimal Print Contrast	25%
Scan Angle Roll / Pitch / Skew	360° / ±55° / ±55°
Field of View Horizontal / Vertical	39° / 24°
Scan Modes	Trigger (Level, Pulse), Sense, Continuous Mode
Scan Rate	60 frames per second

1D Capture	All major 1D symbologies, including EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey.
2D Capture	All major 2D symbologies, including PDF417, QR Code, Data Matrix, Aztec, Maxicode
Dimensions	113.5 mm (W) x 73.3 mm (D) x 159.0 mm (H)
Weight	162 g
Notifications	Beep, LED indicator
Drop	1.5 m
IP Rating	IP42
Hardware Certifications	CE, FCC, RoHS, IEC62471, KC
Standard Warranty	5 years

## CUSTOM P3 thermal roll printer

Printing Method	Thermal printing, fixed head
Number of Dots	8 dots / mm
Resolution	203 dpi
Printing (mm/sec)	180 mm/s
Printing Direction	Normal, 90°, 180°, 270°
Printing Format	Height and width from 1 to 8, bold, reverse, underlined, italic
Character Set	Standard font, extended Chinese 18030, Korean PC949
Supported Barcodes	UPC-A, UPC-E, EAN8, EAN13, CODE39, ITF, CODABAR, CODE93, CODE128, CODE32, 2D barcode PDF417, QR CODE, DATA MATRIX

Paper Width	80mm
Paper Weight	from 60 gr/m <sup>2</sup> to 90 gr/m <sup>2</sup>
Paper Thickness	from 63 µm to 100 µm
Roll Dimension	max Ø 80mm
Sensors	Paper presence, Head temperature, Cover open
Head Life	150 Km, 100 M pulse (12.5% duty cycle)
MCBF	1 million cuts, partial cut
Dimensions	142 mm (W) x 190 mm (L) x 135,5 mm (H)

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# AerPPC PP-9645

Power Efficient Intel Haswell Panel PC



**FEC**

# PP-9645

We aim to exceed your expectations by providing high quality, reliable products with state of the art designs.

Featuring brand new AerPPC drawer design, the main unit can be easily removed for maintenance while maintaining a sleek and stylish profile. The iconic AerPPC modular system provides outstanding flexibility, serviceability, efficiency and reliability to minimize your TCO (Total Cost of Ownership).

## Add-on Devices

All AerPPC add-on devices use a USB interface for reliability, simple installation and maintenance.

USB I/O on the right side (standard) of the display



2in1 MSR + RFID

2in1 MSR + iButton

2in1 MSR + Fingerprint Reader

RFID

Fingerprint Reader

iButton

MSR

## Features

## Optional Display



Equipped with 2.5" SATA drive slot and onboard M.2 SSD storage (option)



Smart Fan detects CPU temperature and adjusts fan speed automatically



Standard VESA wall mount option



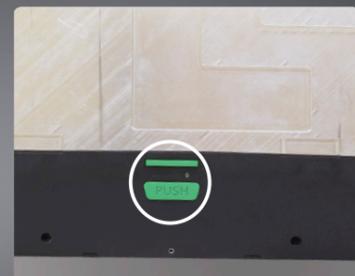
Integrated Pole Type Customer Display



Integrated Customer Display



Integrated Pole Type 15inch Display



One touch access to remove the main unit.



Choice of traditional bezel & true flat options



Improved power button & status LED design

Customer Display		2nd Display
VFD	LCM	
<ul style="list-style-type: none"> <li>• Various Customer Display Options</li> </ul>		<ul style="list-style-type: none"> <li>• Choose from 12", 13.3" or 15"</li> <li>• Optional Touch Support (all sizes)</li> <li>• Optional USB Hub and Audio Support (12" and 15" only)</li> </ul>

# Specifications



15" Resistive w/ Bezel



15" Resistive Bezel-Free



15" P-CAP Bezel-Free

Model	PP-9645A	PP-9645B	PP-9645C
Processor	Intel® Celeron G1820TE 2.20GHz Intel® Core i3-4330TE 2.40 GHz Intel® Core i5-4590T 3.0 GHz		
System Memory	1 x 2GB Standard, Maximum 16GB (2 x 8GB 204-pin DDR3L-1600)		
Power Supply	150W (12V / 12.5A) External Power Adaptor		
Storage Device	1 x 2.5" SATA HDD or SSD		
Second Storage	Optional M.2 Storage Device		
Construction	Aluminum Die-casting + Plastic (with Bezel)	Aluminum Die-casting + Plastic (Bezel-Free)	Aluminum Die-casting + Plastic (Bezel-Free)
Speaker	2 x 2W Internal Speaker		
Housing Color	Black	Black with Silver Trim	Black with Silver Trim
<b>Touch LCD Display</b>			
Brightness / Resolution	350 cd/m2 (LED) / 1024 x 768		
Touch	5-Wire Resistive Touch	5-Wire Resistive Touch	Projected Capacitive Touch
<b>I/O Ports</b>			
Serial Port	1 x External: COM1(RJ45) with RI / 5V / 12V Selectable		
USB Port	5 x External (Rear USB 2.0 x 2, USB 3.0 x 2, Side USB 2.0 x 1)		
Powered USB Port	1 x 24V		
Cash Drawer Port	1 x RJ11 (12V / 24V)		
LAN Port	1 x RJ45 Gigabit LAN		
Video Port	1 x VGA ; 1 x HDMI		
DC Power	1 x Input 12V DC / 1 x Output 12V DC Jack 2.5 mm		
Wifi	Optional 802.11 b / g / n		
<b>Optional I/O Board (Factory Install Only)</b>			
Type C	2 x Serial Port: COM 2 & COM 3 (RJ45) RI / 5V / 12V Selectable; Powered USB Port: 1 x 12V		
Type G	3 x 12V Powered USB Port		
Type K	1 x Serial Port: COM 2 (DB9) RI / 5V / 12V Selectable; 2 x 12V Powered USB Port		
<b>OS Supported</b>			
Windows	Windows 7, Windows Embedded POSReady 7, Windows 8.1, Windows Embedded 8.1 Industry, Windows 10		
<b>Dimensions &amp; Weight</b>			
Product	Without Base: 364 (W) x 291 (H) x 53.9 (D) mm, 5.2 Kg / With Base: 364 (W) x 329 (H) x 210 (D) mm, 6.8 Kg		
With Carton	477 (W) x 508 (H) x 307 (D) mm, 10 Kg		
<b>Operation Conditions</b>			
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)		
Storage Temperature	-20°C ~ 60°C (-4°F ~ 130°F)		

\*Specifications are subject to change without notice.