

ProfitPoint™ 10" User's Manual



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Revision History

No.	Version	Description	Date
1	V1.0	First release	2018/04/10
2	V1.1	Update Description of device	2018/04/13
3	V1.2	Update Description of Function	2018/04/18
4	V1.3	Update FCC, ISED, CE Caution	2019/04/17

1 Foreword

1.1 Copyright Notice

While all information contained herein have been carefully checked to assure its accuracy in technical details and printing, RTC assumes no responsibility resulting from any error or features of this manual, or from improper uses of this manual or the software. Please contact our technical department for relevant operation solutions if there is any problem that cannot be solved according to this manual.

RTC reserves all rights of this manual, including the right to change the content, form, product features, and specifications contained herein at any time without prior notice. Please contact RTC for further information:

<http://www.rtc.com/support>

The trademarks and registered trademarks in this manual are properties of their respective owners. No part of this manual may be copied, reproduced, translated or sold. No changes or other purposes are permitted without the prior written consent of RTC.

RTC reserves the right of all publicly-released copies of this manual.

1.2 Notes

Applicable notes are listed in the following table:

Sign	Notice Type	Description
	Notice	Important information and regulations
	Caution	Caution for latent damage to system or harm to personnel

1.3 Statement

It is recommended to read and comply with this manual before operating the ProfitPoint which provides important guidance and helps decreasing the danger of injury, electric shock, fire, or any damage to the device.

1.4 Disclaimer

RTC assumes no legal liability of accidents resulting from failure of conforming to the safety instructions.

1.5 Limitation of Liability/Non-warranty

For direct or indirect damage to this device or other devices of RTC caused by failure of conforming to this manual or the safety instructions on device label, RTC assumes neither warranty nor legal liability even if the device is still under warranty.

1.6 Safety Instructions

Keep and comply with all operation instructions, warnings, and information.

Pay attention to warnings on this device.

Read the following precautions so as to decrease the danger of injury, electric shock, fire, or any damage to the device.

1.7 Precautions

Pay attention to the product labels/safety instructions printed on silk screens.

Do not try repairing this product unless declared in this manual.

Keep away from heat source, such as heater, heat dissipater, or engine casing.

Do not insert other items into the slot (if any) of this device.

Keep the ventilation slot ventilated for cooling.

System fault may arise if other items are inserted into this device.

Installation: ensure correct installation according to instructions from the manufacturer with recommended installation tools.

Ensure ventilation and smoothness according to relevant ventilation standard.

1.8 Safety Instructions for Power Cables and Accessories

Proper power source only

Start only with power source that satisfies voltage label and the voltage necessary according to this manual. Please contact technical support personnel of RTC for any uncertainty about the requirements of necessary power source.

Use tested power source

This product still contains a button lithium battery as a real-time clock after its external power source is removed and therefore should not be short-circuited during transportation or placed under high temperature.

Place cables properly:

Do not place cables at any place with extrusion danger.

Cleaning Instructions

Please power off before cleaning the device.

Do not use spray detergent.

Clean with a damp cloth.

Do not try cleaning exposed electronic components unless with a dust collector.

Support for special fault: Power off and contact technical support personnel of RTC in case of the following faults:

- The device is damaged.
- The temperature is excessively high.
- Fault is still not solved after the operation according to the manual.

2 Overview

2.1 Introduction

Thank you for choosing RTC. It is our commitment to provide our valued customers with the embedded devices equipped with the state-of-the-art technology and the best product services.

Tablet enables the interaction between operators/users and applications, connects industrial control products such as wireless, transducer, battery inside, storage, etc. Tablet adopts a display for displaying and input units such as touch screen, keyboard, audio, kind of sensors etc. for writing working parameters or inputting operation commands. As a digital device for realizing information interaction between human and machine, Tablet is composed of hardware and software. Based on its ample function interfaces and powerful user operational interface, it is very suitable for control units such as medical device, intelligent transportation, industrial field, etc.

RTC's ProfitPoint products are based on the most advanced ARM and Intel Atom processors and have low-power consumption and high integration. The products are designed for applications such as industrials, medicals, and transportations etc.

2.2 Product Series

2.2.1 Product Information

ProfitPoint™ 10"	T200111 is the main model number, which will be followed by two letters and two numbers that indicate color and FLASH Storage Capacity, such as T200111-BK16. Basic information: 10.1" TFT IPS LCD, 1920x1200 4:3 Wide Screen, RK3399 ARM Dual-Core Cortex-A72 2.0GHz, Quad-core Cortex-A53 1.5GHz, 1000Mbps Ethernet, POE IEEE 802.3at, USB2.0 HOST, Type-C OTG, WIFI/BT4.2.
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3 ProfitPoint Hardware Instructions

3.1 Product Appearance



Front View



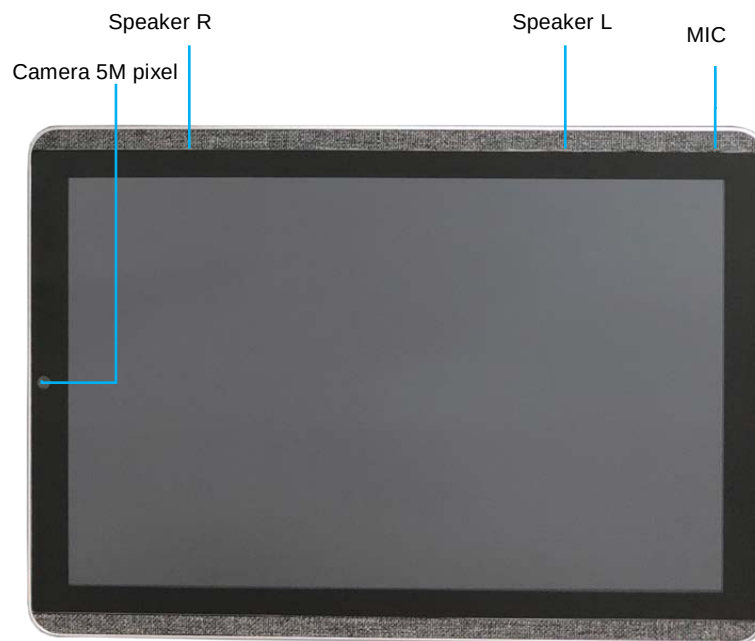
Back View

3.2 Specifications

Product	ProfitPoint™ 10"
CPU	RK3399, Dual-Core Coretex-A72 2.0GHz, Quad-core Coretex-A53 1.5GHz
Display	10.1" IPS TFT LCD, 1920 x1200, 16.7M color depth, 450cd/m2
	TP use 1.1mm thickness Corning Gorilla Glass for good hardness
	Multi-point capacitive touch screen, 10 point
HDMI	HDMI Type-A, Pixel up to 4K
RAM	DDR3L-1800 2GB
Storage	16GB on board eMMC
Network	1 x Ethernet 10/100/1000Mbps and POE
WLAN	1xWiFi 802.11 a/b/g/n/ac
Bluetooth	BT4.2+EDR, with inner antenna
USB	1xUSB2.0 HOST, 1xType-C OTG
Camera	Front 5MP, AF, AWB, AE
Audio	Internal Speaker, 2x1W
	1x MIC
RTC	Support
Watch Dog	Watchdog from RTC Chip
Key-Press	1xReset Button, 1xRecovery Button
POE	IEEE 802.3at
Power Input	12V/1.5A DC Power Supply
Dimension	244.8x171.3x25.4mm
Weight	617.5g
OS	Android 7.1
Temperature	Operation: 0℃ ~ +40℃
Installation	With the VESA mounting Kit

3.3 Interface Instructions

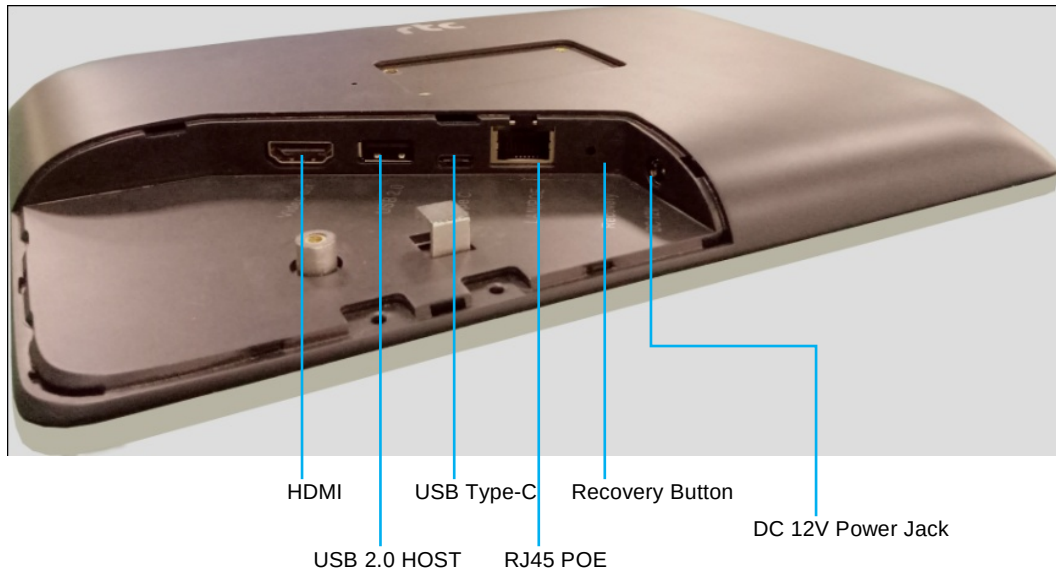
3.3.1 Front View



3.3.2 Back View



3.3.3 Side View



3.4 Dimension

Whole device Size: 244.8x171.3x25.4mm

3.5 Buttons

Reset button

You can press reset button with back small hole when you want to reset the tablet.

Recovery buttons

The tablet will go to recovery mode when recovery button is pressed with power up. You can update system with recovery mode.



Never apply excessive pressure to a button, because this may cause damage that is not covered under the warranty.

3.6 Interface Description

3.6.1 12V Adapter Input

DC 2.1x5.5mm type adapter power Jack

Input Power: DC 12V/1.5A

Structure mark: DC 12V



Pin	Description
Centre	+12V
Diameter	Ground

3.6.2 Internal MIC in Interface

Front hole is used to the on-board analog MIC input.

3.6.3 10/100/1000M Ethernet Connector (RJ45)

Structure mark: LAN/POE

It is a standard RJ45 port, support 10/100/1000Mbps Ethernet, up to 500Mbps. Support POE IEEE 802.3at, power up to 30W.

3.6.4 USB OTG (Type-C)

Structure mark: Type C

It is a standard USB Type-C port, you can connect to PC as USB client to manage the android device. Or connect a USB device using USB OTG to HOST adapter cable.

3.6.5 USB 2.0 HOST (Type-A)

Structure mark: USB 2.0

It is a standard USB Type-A port, you can connect to tablet as USB client to use the USB slave device, as U-disk.

3.6.6 HDMI

Structure mark: Video out

It is a standard HDMI Type-A port.

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3.7 Packing List

No	Part Description	Quantity	Type
1	ProfitPoint™ 10"	1	
2	12V/ 2A Adapter	1	
3			
4			
5			

4 Software Instructions

4.1 Brief Introduction

ProfitPoint has been pre-loaded with Android image, please reference to SW-UM.

5 Tips



Waste Disposal

It is recommended to disassemble the device before abandoning it in conformity with local regulations. Please ensure that the abandoned batteries are disposed according to local regulations on waste disposal. Do not throw batteries into fire (explosive) or put in common waste canister. Products or product packages with the sign of “explosive” should not be disposed like household waste but delivered to specialized electrical & electronic waste recycling/disposal center. Proper disposal of this sort of waste helps avoiding harm and adverse effect upon surroundings and people's health. Please contact local organizations or recycling/disposal center for more recycling/disposal methods of related products.

Comply with the following safety tips:



Do not use in combustible and explosive environment

Keep away from combustible and explosive environment for fear of danger.



Keep away from all energized circuits.

Operators should not remove enclosure from the device. Only the group or person with factory certification is permitted to open the enclosure to adjust and replace the structure and components of the device. Do not change components unless the power cord is removed. In some cases, the device may still have residual voltage even if the power cord is removed. Therefore, it is a must to remove and fully discharge the device before contact so as to avoid injury.



Unauthorized changes to this product or its components are prohibited.

In the aim of avoiding accidents as far as possible, it is not allowed to replace the system or change components unless with permission and certification. Please contact the technical department of RTC or local branches for help.



Pay attention to caution signs.

Caution signs in this manual remind of possible danger. Please comply with relevant safety tips below each sign. Meanwhile, you should strictly conform to all safety tips for operation environment.



Notice

Considering that reasonable efforts have been made to assure accuracy of this manual, RTC assumes no responsibility of possible missing contents and information, errors in contents, citations, examples, and source programs.

RTC reserves the right to make necessary changes to this manual without prior notice. No part of this manual may be reprinted or publicly released in forms of photocopy, tape, broadcast, e-document, etc.



FCC RF Exposure Information and Statement

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device types: Tablet computer (FCC ID: 2ABUA- T200111) has also been tested against this SAR limit. SAR information on this and other pad can be viewed on - line at <http://www.fcc.gov/oet/ea/fccid/>. Please use the device FCC ID number for search. This device was tested simulation typical 0mm to body. To maintain compliance with FCC RF exposure requirements, the use of belt clips, holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.



FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or

television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



IC RF Exposure Information and Statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of IC is 1.6 W/kg averaged. Device types: Tablet computer (IC: 24893- T200111) has also been tested against this SAR limit. This device was tested simulation typical 0 mm to body. To maintain compliance with FCC RF exposure requirements, the use of belt clips, holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

**IC WARNING**

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**CE Caution:**

For the following equipment:

Product Name: ProfitPoint™ 10"

Model: T200111

Brand Name: RTC Industries, Inc.

hereby declares that this [Name: ProfitPoint™ 10", Model: T200111] is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.



The full test of the EU declaration of conformity please refer to www.rtc.com/support

The product shall only be connected to a USB interface of version USB2.0 and that the connection to a power USB is allowed.

Only can use Power Adapter: S024AMM1200200 Input: AC 100-240V 50/60Hz 600mA; Output: DC 12V 2000mA

RED Article 10 2

-This product can be used across EU member states

RED Article 10 10

-The product is class 1 product, No restrictions

The RF distance between body and product is 20cm

Bluetooth Version: Bluetooth V4.2

Frequency Range: 2402-2480MHz

Max.RF Output Power: 5.76dBm (EIRP)

Support Standards: 802.11b, 802.11g, 802.11n-HT20

Frequency Range: 2412-2472MHz for 802.11b/g/n(HT20)

Max.RF Output Power: 14.13dBm (EIRP)

Operation Frequency: Band 1: 5150-5250MHz,

Support Standards: 802.11a, 802.11n-HT20/40, 802.11ac(HT80)

RF Output Power Max. 10.79dBm (EIRP)

Operation Frequency: 5725-5850MHz

Support Standards: 802.11a, 802.11n(HT20/40); 802.11ac-VTH80

RF Output Power Max. 13.76dBm (EIRP)

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED

BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING

TO THE INSTRUCTIONS.



RTC Industries, Inc.

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