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# Touch Clock

TT10 & TT7 for Skyward

## Product Information



# TT10 Touch Clock

The TT10 Touch Clock is a self-service kiosk for employees to quickly and easily perform the following tasks:

- Clock in
- Clock out
- Change job code
- View time sheet
- Submit time sheet



## Product Specifications:

<i>Operating System:</i>	Yocto Linux (Sumo Branch)
<i>Internal Storage:</i>	SSD: 64 GB, Flash: 8 GB, RAM: 2 GB
<i>Display:</i>	Type: 10.1" Capacitive Touch Aspect Ratio: 16 x 9 Resolution: 1280 x 800 pixels
<i>Power Indicators:</i>	Type: Tri-Level LED Key: Red (Primary Power Present, Power Pack) Yellow (Battery Operation) Green (PoE + Negotiated)
<i>CPU:</i>	Intel Atom™ X5-E8000 Quad Core
<i>Battery:</i>	Internal Lithium Battery Back-Up: 5.2 Ah
<i>Cameras and A/V:</i>	Camera: High-speed USB 2.0 interface, 60-degree auto-focus, 1592 x 1944 max resolution 5 MP lens Speaker: Intel High Definition Audio Microphone
<i>Communications:</i>	Wi-Fi: (802.11a/b/g/n) 2.4GHz, WEP 64/128-bit, WPA, WPA2 Bluetooth: External DI/DO Relay Module
<i>Networking:</i>	Gigabit Ethernet
<i>IO Ports:</i>	2 external full-size USB 2.0
<i>Readers:</i>	Barcode Swipe Reader, Proximity Card Reader, 1D Beam Barcode Scanner, Fingerprint Scanner: Suprema
<i>Power:</i>	VDC: 12V 2.08A Power Pack Power over Ethernet: 802.3at PoE+
<i>Environment (Industrial):</i>	Operational Temp: 5°C to 35°C (41°F to 95°F) Storage: -20°C to 65°C (-4°F to 149°F) Humidity: 20% to 80% non-condensing Electrostatic Discharge: Min. 8 KV

# TT7 Touch Clock

The TT7 Touch Clock is a self-service kiosk for employees to quickly and easily perform the following tasks:

- Clock in
- Clock out
- Change job code
- View time sheet
- Submit time sheet



## Product Specifications:

<i>Operating System:</i>	Yocto Linux (Sumo Branch)
<i>Internal Storage:</i>	eMMC: 32GB, RAM: 2GB DDR3
<i>Display:</i>	Type: 7" Color PCAP Multi-Touch Aspect Ratio: 16 x 9 Resolution: 1024 x 600 pixels
<i>Power Indicators:</i>	Type: Tri-Level LED Key: Red (Primary Power Present, Power Pack) Yellow (Battery Operation) Green (PoE + Negotiated)
<i>CPU:</i>	1.2GHz Quad Cortex™ - A35, 1.04GHz, up to 2GHz burst
<i>Battery:</i>	Internal Lithium Battery Back-Up: 5.2 Ah
<i>Communications:</i>	Wi-Fi: (802.11a/b/g/n) 2.4GHz, WEP 64/128-bit, WPA, WPA2 Bluetooth: 4.2
<i>Networking:</i>	Gigabit Ethernet
<i>IO Ports:</i>	2 external full-size USB 2.0
<i>Readers:</i>	Barcode Swipe Reader, Proximity Card Reader, 1D Beam Scanner, Fingerprint Scanner: Suprema
<i>Power:</i>	VDC: 12V 2.08A Power Pack Power over Ethernet: 802.3at PoE+
<i>Environment (Industrial):</i>	Operational Temp: 5°C to 32°C (41°F to 90°F) Storage: -20°C to 70°C (-4°F to 158°F) Humidity: 20% to 95% non-condensing Electrostatic Discharge: Min. 8 KV

## Power Requirements

The TT10 and TT7 Touch Clock can be powered from multiple input sources:

- AC Power Pack
- PoE+ (LLDP-MED TLV auto-negotiation with switch/PSE or PSE pre-configured for static-inline 30W power)
- PoE+ Injector rated for 30W
- Internal Battery



**AC Power Pack:** 12VDC 2.08A output for use with a wall outlet.

**Power over Ethernet (POE+):** 802.3at designed to provide maximum of 25.5W of power to the device for use with powered switches over your districts Ethernet lines. A PoE+ injector can be used for installations that do not have PoE+ Ethernet switches.

**Internal Battery:** Provides 4-6 hours of runtime. When running on battery, all peripherals are powered and operational.

### *What to consider for the location of your time clock:*

Select a high-traffic area for your employees that has access to one of the following:

- Connection to a powered switch over Ethernet (PoE+)
- Connection to Ethernet and a wall power outlet
- Connection to Wi-Fi and a wall power outlet

All clocks come with a wall mount bracket attached, however a table-top bracket is available if requested. View the specifications for the table-top bracket [here](#).

## Reader Options

Up to two readers can be built-in to the time clock: Swipe Barcode, Beam Barcode, Biometric, or Proximity.

### *How to choose the best reader options for your district:*

Our recommendation is to use a consistent form of identification across the district to keep the process simple for all employees. For example, if your employees already have proximity cards/fobs for opening doors, cafeteria check-out, etc, the time clock can typically be set up to use the same proximity card/fobs.

## Beam Barcode Reader Option

Staff identify themselves with the Beam Barcode Reader option that would be located on the right side of the clock. The reader works by having the employee hold their barcoded ID badge under the beam light coming from the bottom of the reader.



## Swipe Barcode Reader Option

Staff identify themselves with the Swipe Barcode Reader option that would be located on the right side of the clock. The reader works by having the employee slide their barcoded ID badge through the swipe reader. Placement of the barcode on the badge is more particular with this reader, review the specifications below for best results.



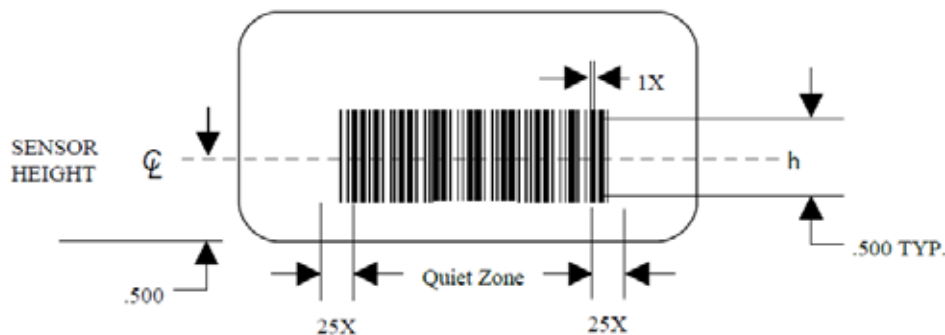
### **Recommended Barcode Specifications:**

#### **Physical Specifications:**

The laminate covering the barcode must be no thicker than .010" and transparent to light in the 600 to 9200 nanometer wavelength range.

#### **Printing Specifications:**

1. The print contrast ratio (PCR) of the barcode should not be greater than .75 for light in the 600 to 920 nanometer wavelength range.
2. The minimum width of the narrow barcode element should be .010".
3. The width to height ratio should be in the range of 2.2:1 to 3:1.
4. A quiet zone of at least 25x or twenty five times the width of the narrow element is required on each end of the barcode. There can be no transitions in this area as stock to stock seam, the edge of the label, or the beginning of the blocking pattern.
5. The barcode height should be at least .250" high.
6. The wider a barcode is, the longer it will take to read.
7. A high-quality printing method should be used, which will minimize bar element imperfections such as voids and smears.





## Biometric Reader Option

Staff identify themselves with the Biometric Reader option that would be located on the top right side of the clock. To use, the employee places their finger on the reader and it will match them in the system (1:many). Once matched, the employee can check themselves in.

Some people do not have fingerprints or have low defined fingerprints. Typically 2-3% of your staff will not have a good biometric read. This can happen to staff such as school secretaries, whose fingers come in constant contact with paper.

### ***How to achieve 100% participation with the biometric reader option:***

You can change the settings so employees that have trouble getting a good biometric read, enter their ID number first and then confirm with their biometric. This allows the system to correctly identify the employee with a 1:1 match.

### ***Biometric Usage and Privacy***

The time clocks do not store or save any fingerprint data. The system is one directional and through a series of measurements a number is created and stored in the system. This number cannot be deconstructed to remake the biometric measurements.

Read the full [Biometric Usage and Privacy Statement here](#).

## Proximity Reader Option

Staff identify themselves with the Proximity Reader option that would be located on the top left side of the clock. The proximity card/fob is placed on or near the reader. It will match the employee in the system and they can continue the process of checking-in.

### ***Can our existing proximity card/fobs work with the time clock?***

Yes. If you choose the Proximity Reader option for your clock, prior to building and shipping the first clock, we require an activated proximity card (with no permissions) be sent for testing. The readers will be built to the proximity cards/fobs specifications prior to shipment.



## Additional Resources

### *Enrollment and Implementation Preparation:*

- Select a few dedicated Skyward administrators to set up your clocks. They will need to know your district's Skyward TrueTime or Time Tracking codes.
- After your initial purchase, School Technology Associates and Skyward will assist with setup, so the clocks are able to communicate with Skyward TrueTime or Time Tracking.
- Once Skyward setup is completed, employee identification enrollment must be done.
  - For Swipe Barcode: Enrollment is done individually at one of the clocks. The data will then sync with Skyward and be sent to any other clocks you have set up.
  - For Biometric: Enrollment is done individually at one of the clocks. The data will then sync with Skyward and be sent to any other clocks you have set up.
  - For Proximity: Enrollment is done individually at one of the clocks or mass imported with Skyward's help using their mass importer with a two-column .csv file of each user's TrueTime or Time Tracking access code and their corresponding proximity card number. The data will sync and be sent to any other clocks you have set up.
- Communicate the various clock-in methods available to staff for payroll time calculation and set up time to give employees a run through on how the clocks work prior to launch

### *What are schools experience with time clocks?*

Take a look at how these schools in Wisconsin are using the time clocks here:

[Tracking Employee Time on Campus](#)