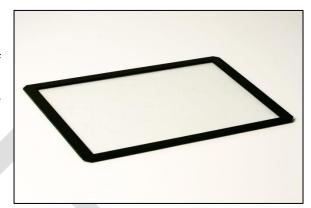


### SDW-270W1-M6L-I63-S1-M0-PRD

**PRODUCT DATA SHEET** 

Measuring just 3.7 mm from glass to frame surface, the Baanto Slim Touch is the thinnest multi-touch frame on the market. Combining the industry proven performance of ShadowSense with a minimalist bezel design allows the Slim Touch to be utilized in multi-touch applications typically exclusive to projective capacitive technology.

Baanto ShadowSense requires no drivers or touch detection applications running on the host CPU making this technology an outstanding solution for cost sensitive applications using low power CPU's and media players.



The following operating systems are supported:

- Windows XP<sup>®</sup> / XPE<sup>®</sup>
- Windows Vista®
- Windows 7<sup>®</sup> / 7 Embedded
- Windows 8®/8 Embedded
- Windows 10<sup>®</sup>
- Linux®
- Mac OS®
- Android™

An industry first, the Baanto Configuration Dashboard provides customers the ability to easily implement and modify the touchscreen behavior. The Dashboard allows the user to adjust the performance and touch characteristics of the touchscreen to provide spurious touch and palm rejection, debris and static object recognition, rain and fluid cancellation, and touch object characterization.

A perimeter based sensor design decouples the touch function from the protective glass providing improved optical and environmental performance, and better immunity to surface debris and scratches.

Targeted at embedded applications in Kiosk, Gaming, ATM, and Control and Monitoring, the worldwide agency approvals and certifications simplify your integration and product approval efforts.

### 1.0 Features

- > True 5 Multi-touch performance
- ➤ High Performance
  - Exceptional accuracy
  - · No ghosting or dead zones
  - · Outstanding ambient light rejection
  - · Excellent size detection
- > Fully featured
  - · Real-time touch area data provided for all touch points
  - Static object detection and rejection
  - Continues to function with debris on the screen
  - Configurable hover distance for touch detection
  - Configurable spurious touch and palm rejection
  - · Power saving idle mode
  - Wakeup on touch input
- ➤ No drivers or touch detection processes on host CPU
  - USB HID interface to host
  - Plug and Play
  - Windows® 7, 8 and 10 compliant packet formats
- ➤ Calibration free
  - Mechanically and thermally stable

# 2.0 Specifications

*			
Description	Value		
Size	27.0" Diagonal		
Aspect Ratio	16:9		
Number of Touches	5		
Touch Resolution	12 Bit X, 12 Bit Y		
Sub pixel Resolution	4K		
Accuracy	±1.4 mm (90% of screen area)		
Data Interface	USB 2.0 (Full Speed) HID,		
	compatible with USB 1.1, 2.0 High Speed, 3.0 & 3.1		
	HID compliant		
	USB Female Type B Receptacle		
Touch Method	Finger, gloved hand or any other pointer.		
	Stylus minimum 4mm tip		
<b>Touch Activation Force</b>	No pressure required		
Touch Durability	Unlimited		
Ambient Light Rejection	Direct sunlight		
Mean Time To Failure (MTTF)	More than 200,000 hours		

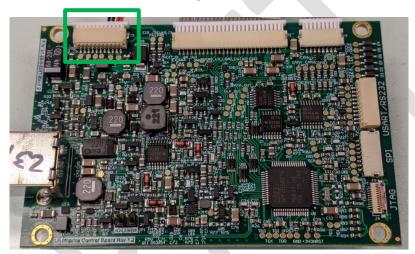
### 3.0 Parts List

The System consists of the following components:

- 27.0" 16:9 Thin Bezel with 3mm protective glass (BEZEL-270W1-I63-S1)
- Touch Control Board (CTRLR-270W1-M6L-RX.XX)
- 26-pin Cable (CABLE-LP-MID-4S-600)
- 8-pin Cable (CABLE-LP-MID-2S-600)

# **4.0 Power Supply Specifications**

The touch control board is powered by applying input voltage on pin 1 & 2 (+V\_EXT) and ground pins 3 & 4 (GND\_EXT) on the connector J3 shown below in green.



The Board can be powered up using 12V with the following Input Voltage specs.

Control Board Connectors	Voltage	Average Current	Peak Current
11 Pin JST SH 1mm	10 V – 13.2 V	0.25A	0.5A
(SM11B-SRSS)			

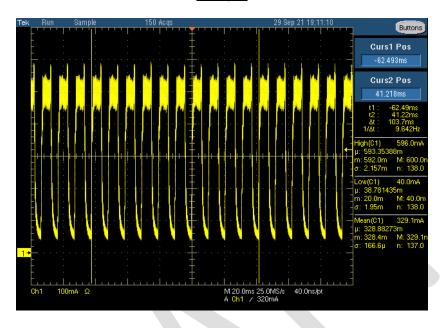
It can also operate at any input voltage from 5V to 12V Input.

For 5V input it is necessary to short out the **5.0V Jumper** shown below in red.

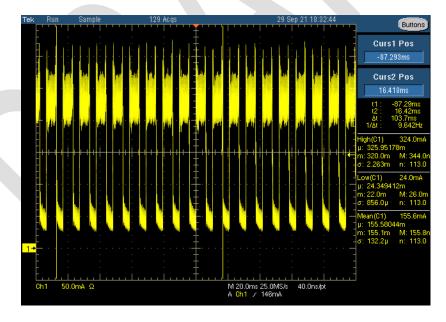


Screen shot below shows the current measurement when the touch screen is operated at 5V or 12V input power supply during the normal (Active) mode of operation.

5V Input

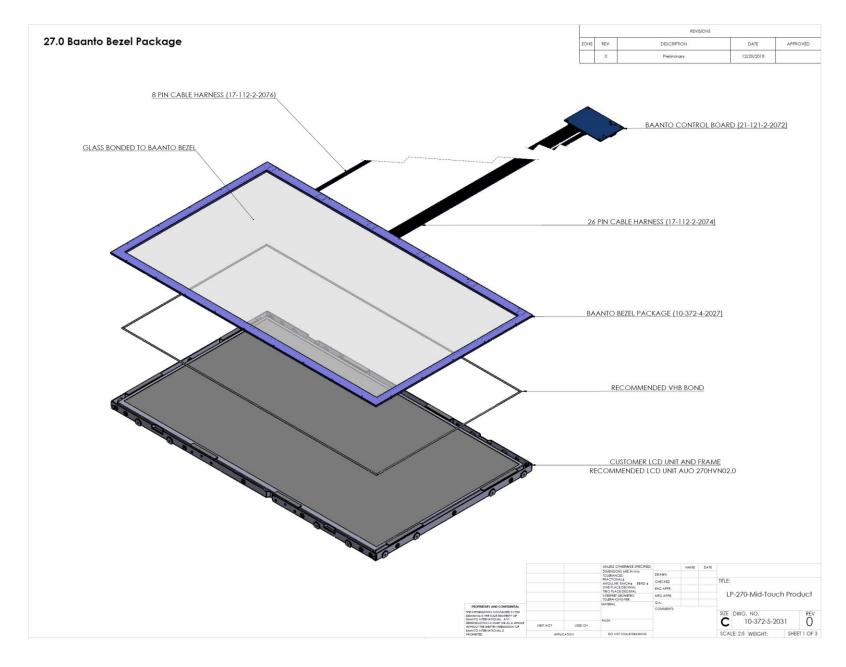


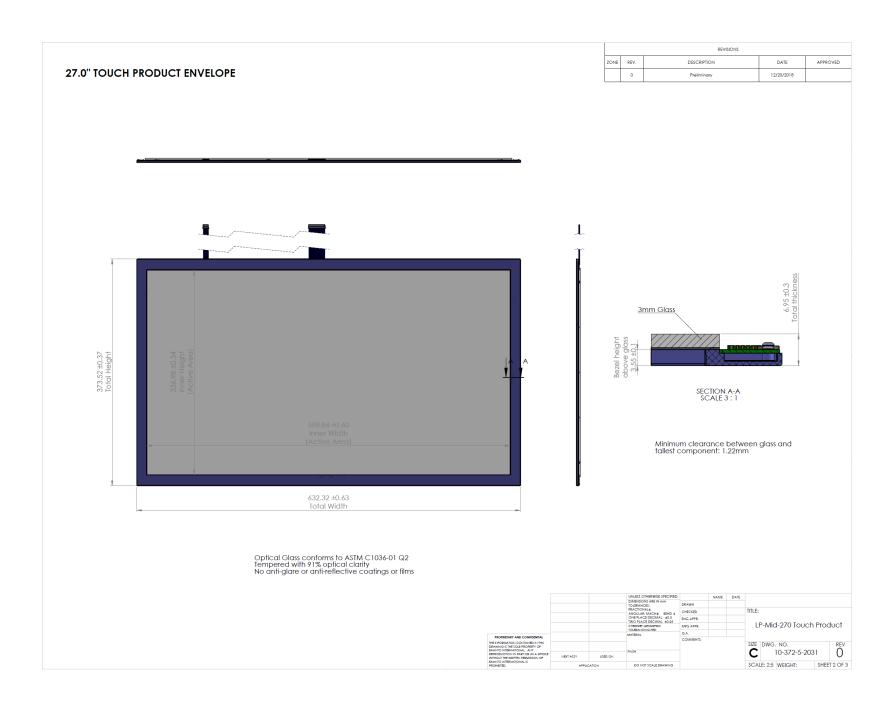
12V Input

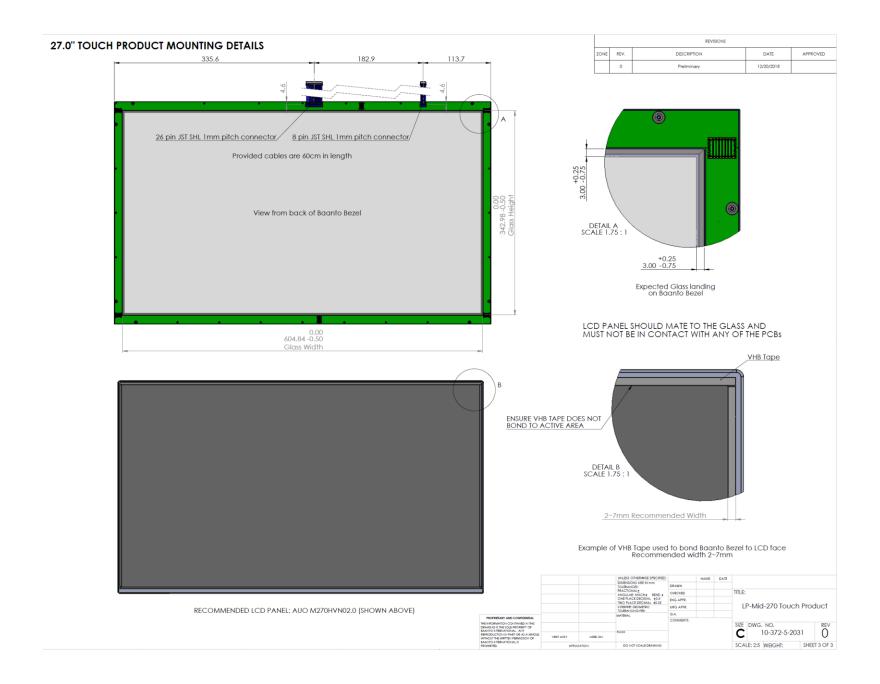


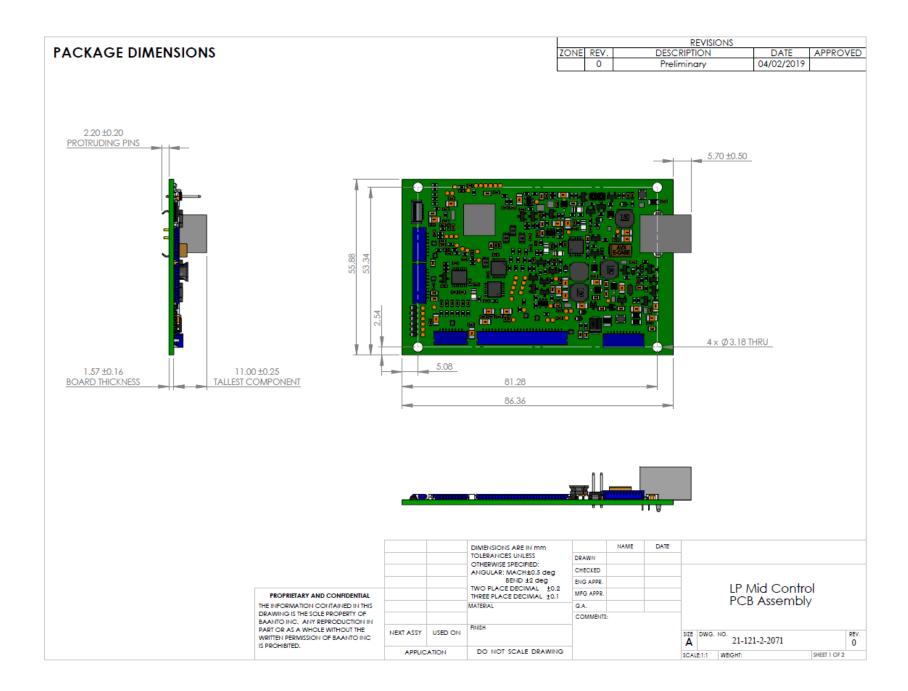
<b>Current Consumption</b>	Max (mA)	Min (mA)	Average (mA)
5V Input	596	40	329
12V Input	324	24	155

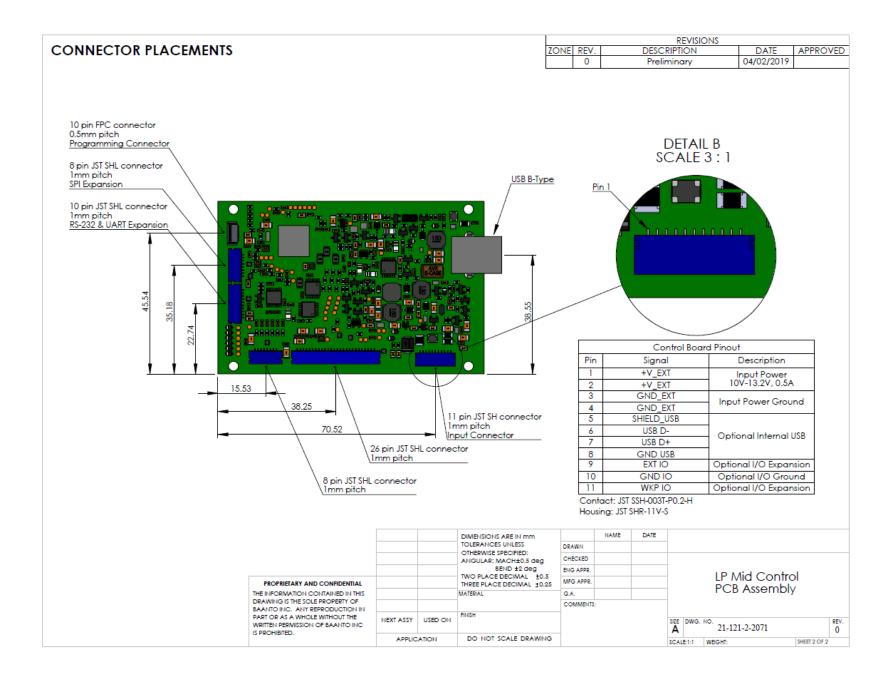
## **5.0 Mechanical Dimensions**



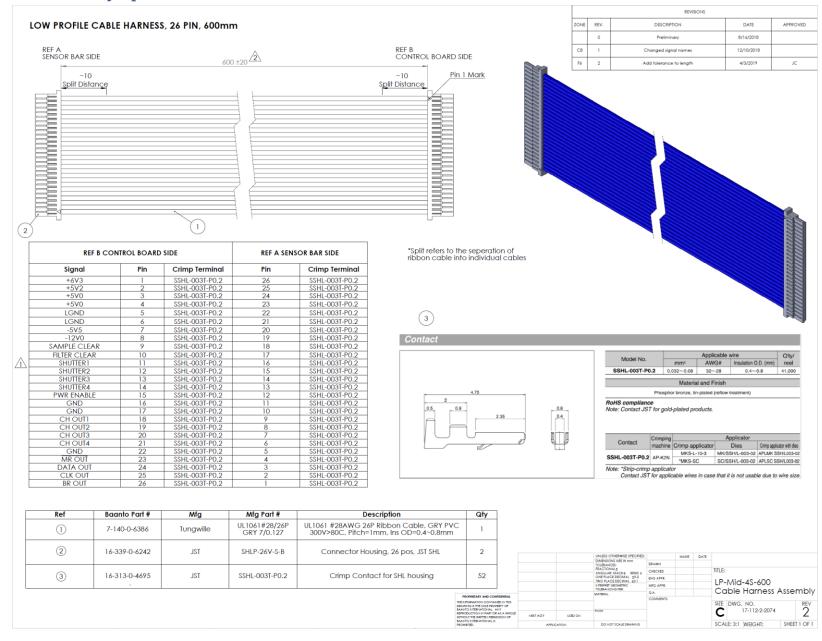


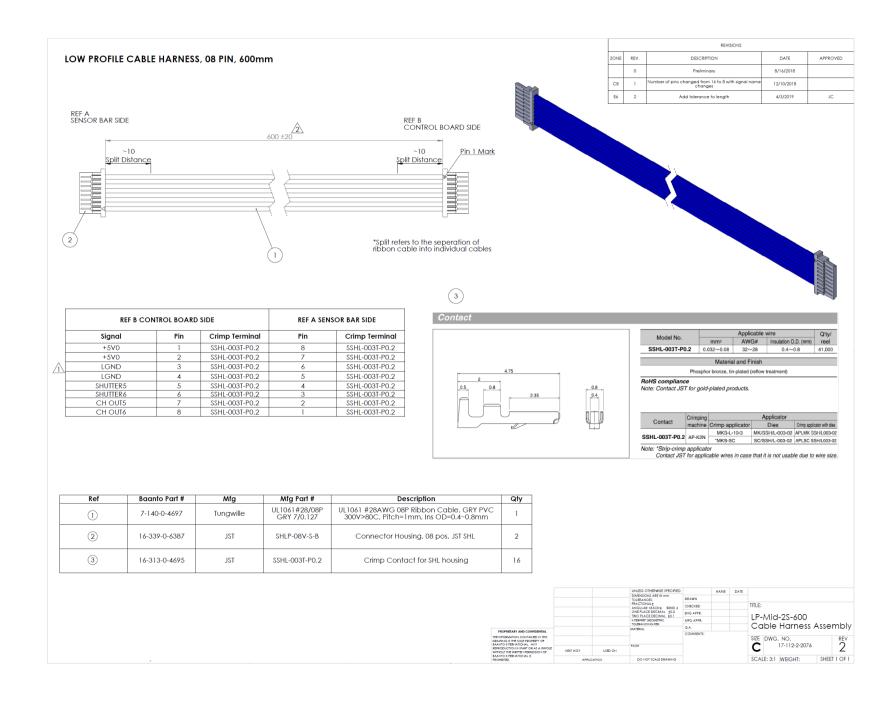






## 6.0 Cable Assembly Specifications





#### **Glass Specification 7.0**

Description	Value
Plain Glass Material	Tempered Glass
Light Transmission	91%
Anti-Glare Glass Material	Low Iron Tempered Glass
Light Transmission	87% to 90%
Single Sided Anti-Glare Gloss	80% ± 10% at 60°
Flatness Tolerance for Plain and Anti-Glare Glass	0.03 inches

#### **Environmental Specification** 8.0

Description	Value	
Operating Temperature	0°C to +70°C	
Non-Operating Temperature (Storage)	-20°C to +80°C	
Operating Humidity	5% to 90% RH non-condensing	
Non-Operating Humidity	5% to 90% RH non-condensing	
Operating Altitude	sea level to 10,000 feet	
Non-Operating Altitude	sea level to 30,000 feet	
Shock Operating	40 g per IEC 60068-2-27, half sine, 11ms duration, 3 axis	
Shock Non-Operating	50 g per IEC 60068-2-27, half sine, 11ms duration, 3 axis	
	(in approved packaging)	
Vibration Operating	1 g per IEC 60068-2-64 at 5 to 500Hz, 1 octave/min, 3 axis	
Vibration Non-Operating	5 g per IEC 60068-2-64 at 5 to 500Hz, 1 octave/min, 3 axis	
<b>Electrostatic Discharge Protection Per Standard</b>	IEC 61000-4-2:2008	
Air Discharge	±8KV	
Contact Discharge	±4KV	

#### 9.0 **Regulatory Test Standards**

Below is a list of regulatory standards the touch screen complies with and the certification marks.

Description	Value
Information technology equipment. Radio disturbance characteristics	EN 55022:2010/AC:2011
FCC EMC Conducted & Radiated Emission	FCC Part 15 B
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	EN 61326-1:2006
Industrial, Scientific and Medical Equipment – Radio Frequency disturbance Characteristics – Limits and Methods of Measurement	EN 55011:2011
Electromagnetic compatibility (EMC). Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	EN 61000-3-2:2006+A1+A2
Electromagnetic compatibility (EMC). Limitation of Voltage Fluctuations and Flicker	EN 61000-3-3:2008
Information technology equipment. Immunity characteristics	EN 55024:1998+A1+A3
Information Technology Equipment - Safety, Part 1: General Requirements	UL 60950-1



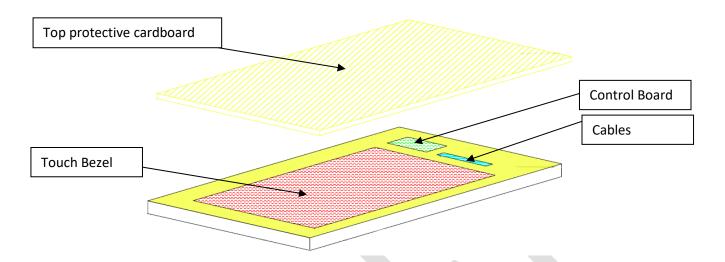




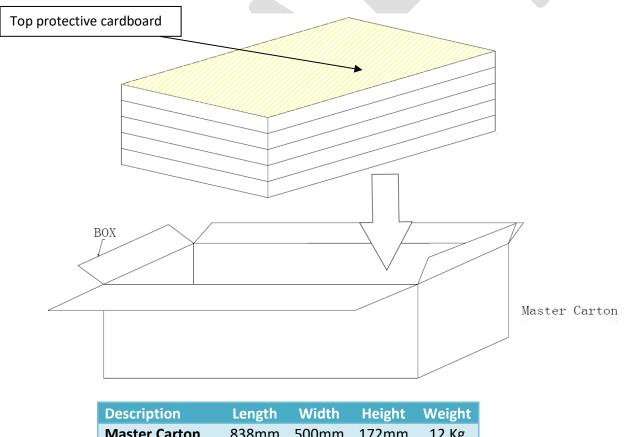


# 10.0 Packing Information

Each touch screen Bezel is individually sandwiched between two brown moisture absorbing paper. The screen, control board and cables are placed in a foam cutout as shown below. A cardboard piece is placed on the topmost foam cutout.



Five frames are stacked on top of each other and placed in the Master Carton



## 11.0 Ordering Information

Currently can order the 27.0" Slim Bezel Multi-Touch screen from Baanto using the Part Number stated below. The description of each field within the part number is shown below. As more options become available then the list below will be updated. There is a minimum order quantity of 5 units.

