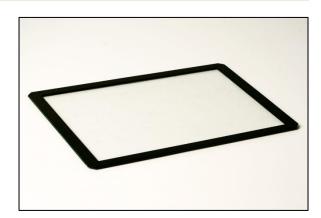


### SDW-150Z1-M5T-CZ1-XX-PRD

### **PRODUCT DATA SHEET**

Measuring just 3.2 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<sup>®</sup>/ 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	15" Diagonal			
Aspect Ratio	4:3			
Number of Touches	5			
Touch Resolution	12 Bit X, 12 Bit Y			
Sub pixel Resolution	4K			
Accuracy	±1.46 mm (90% of screen area)			
Data Interface	USB 2.0 (Full Speed) HID,			
	compatible with USB 1.1 port,			
	HID compliant			
	USB A Type Receptacle			
	Can also be plugged into a USB 3.0 port			
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	Up to full sunlight			
Mean Time To Failure (MTTF)	More than 200,000 hour			

# 3.0 Parts List

The System consists of the following components:

- 15" 4:3 Thin Bezel with 3mm protective glass (BEZEL-150Z1-CZ1-XX)
- Touch Control Board (CTRLR-150Z1-M5T-RX.XX)
- Flex Cable (CABLE-Z01)

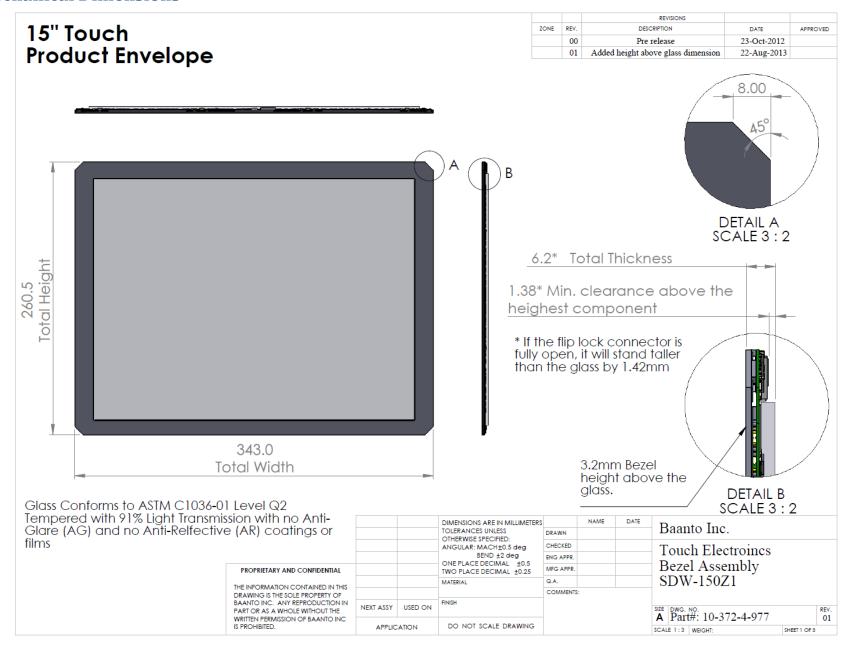
# **4.0 Power Supply Specifications**

The touch control board is powered using a 5V input on the power in (PW\_IN) pin. The power specifications for the 5V input are:

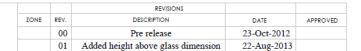
Control Board Connectors	Voltage	Average Current	Peak Current
PW_IN	4.75 V – 5.25 V	0.4A	0.8A

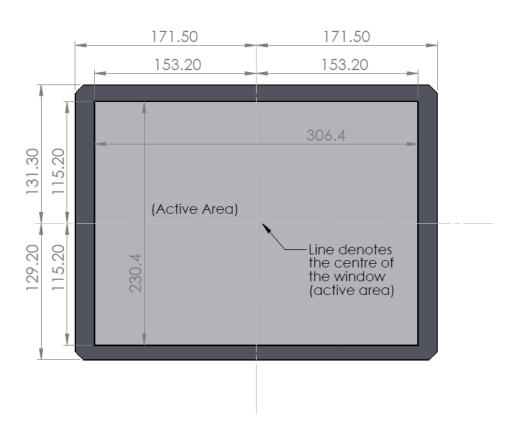
Compliance with the USB specification is not guaranteed if the board is powered via the USB only.

### **5.0 Mechanical Dimensions**

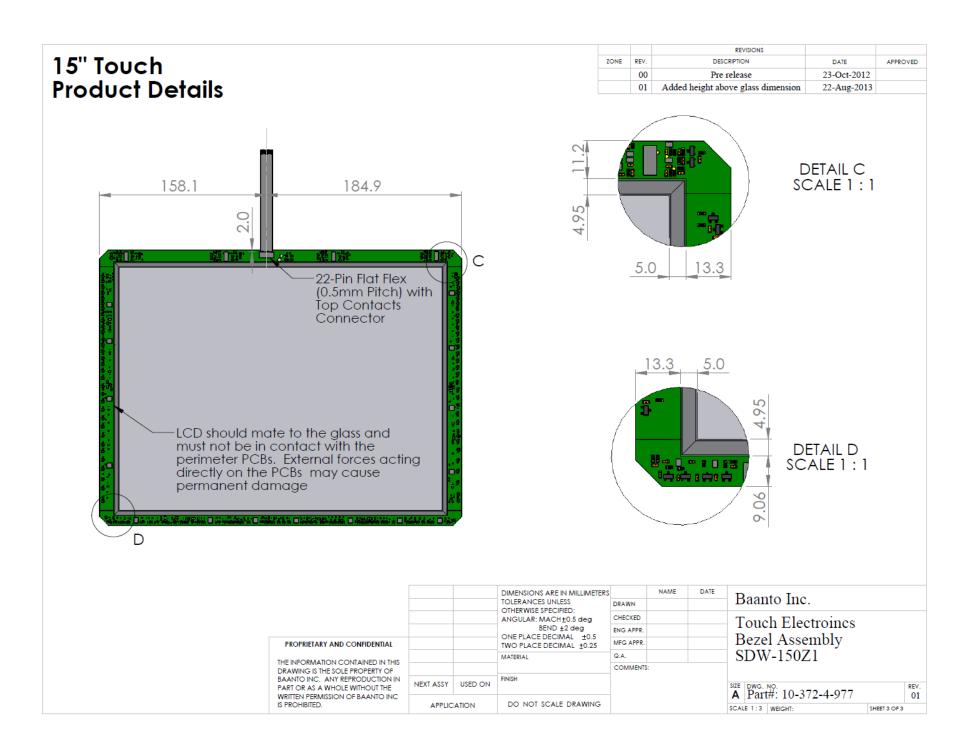


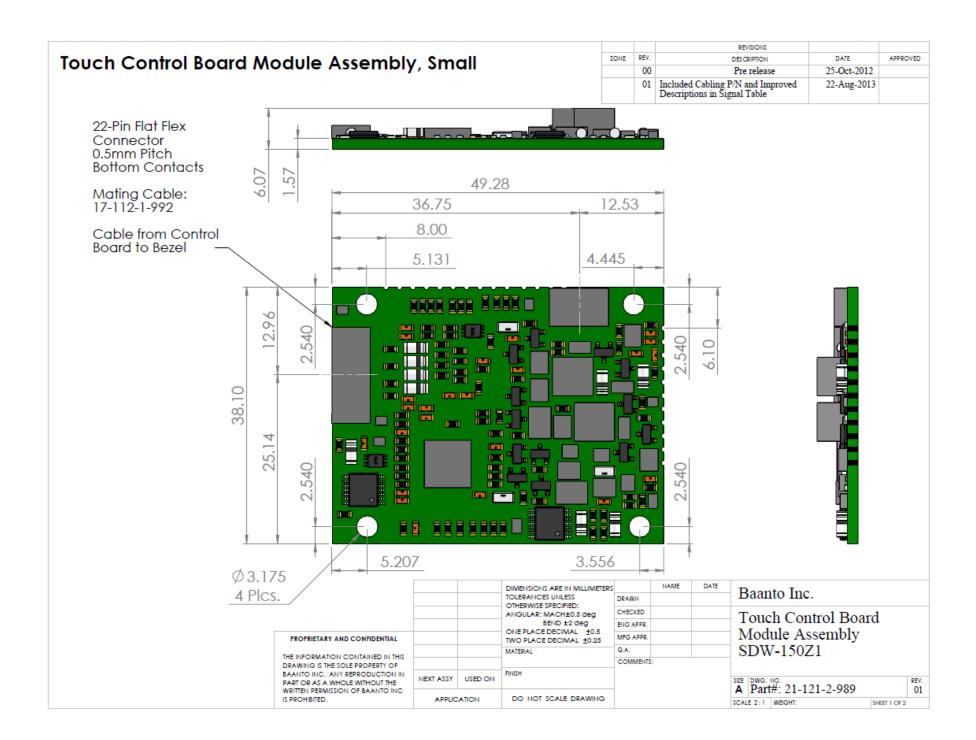
# 15" Touch Product Dimensions

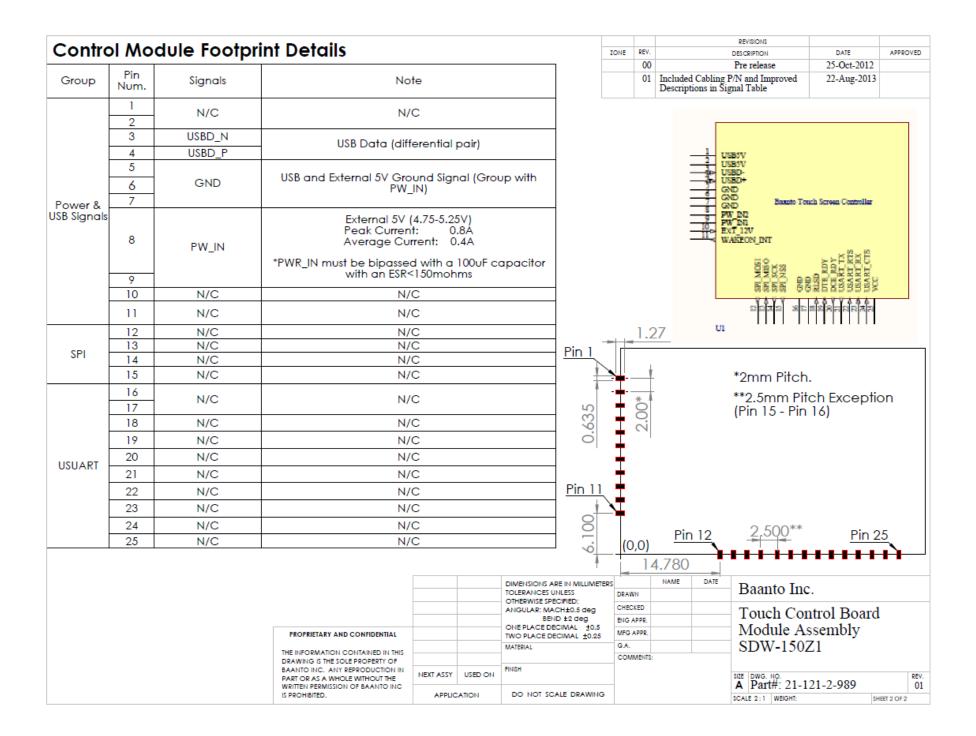




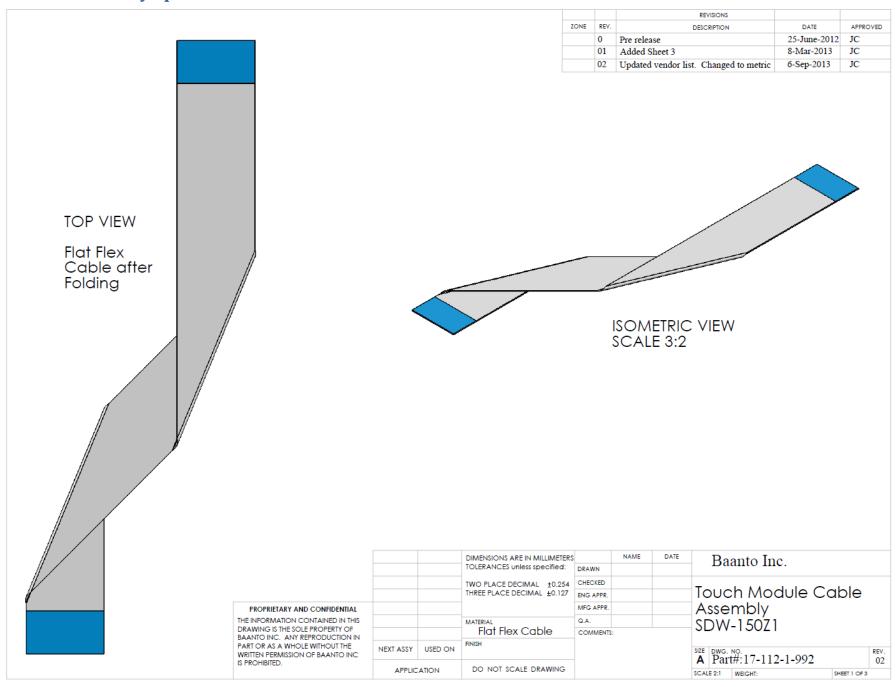
			DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS	DRAWN	NAME	DATE	Baanto Inc.
			OTHERWISE SPECIFIED: ANGULAR: MACH±0.5 deg	CHECKED			Touch Electroines
			BEND ±2 deg ONE PLACE DECIMAL +0.5	ENG APPR.			
PROPRIETARY AND CONFIDENTIAL			TWO PLACE DECIMAL ±0.25	MFG APPR.			Bezel Assembly
THE INFORMATION CONTAINED IN THIS			MATERIAL	Q.A.			SDW-150Z1
DRAWING IS THE SOLE PROPERTY OF				COMMENTS	i:		
BAANTO INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE	NEXT ASSY	USED ON	FINISH				SIZE DWG. NO. A Part#: 10-372-4-977 01
WRITTEN PERMISSION OF BAANTO INC IS PROHIBITED.	APPLIC	ATION	DO NOT SCALE DRAWING				A Part#: 10-3/2-4-9// 01  SCALE 1:3 WEIGHT: SHEET 2 OF 3

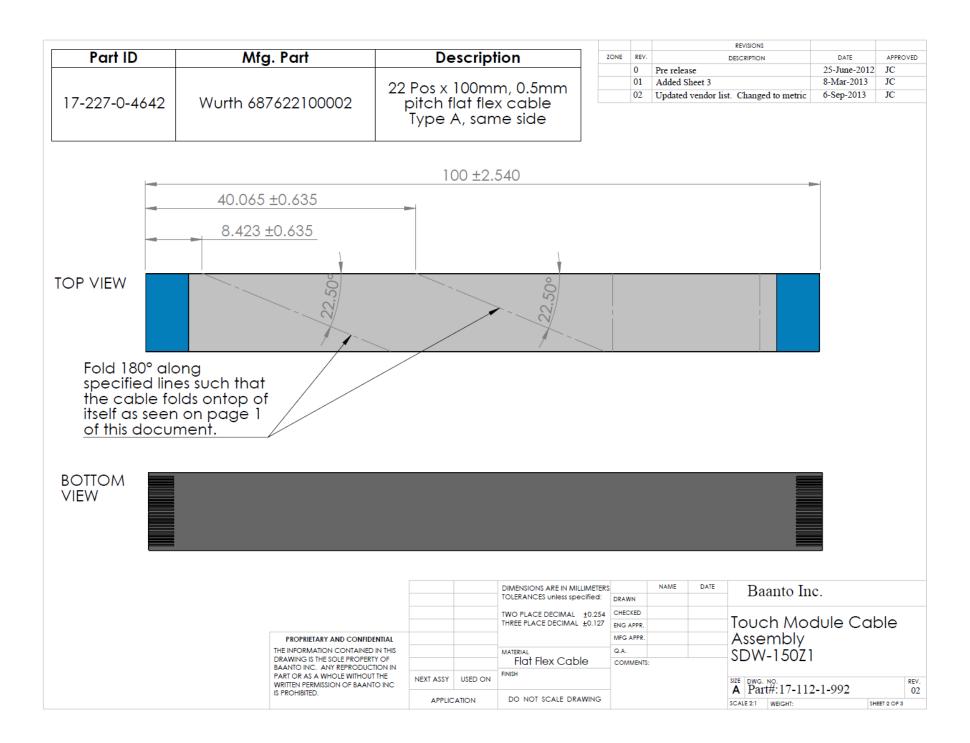


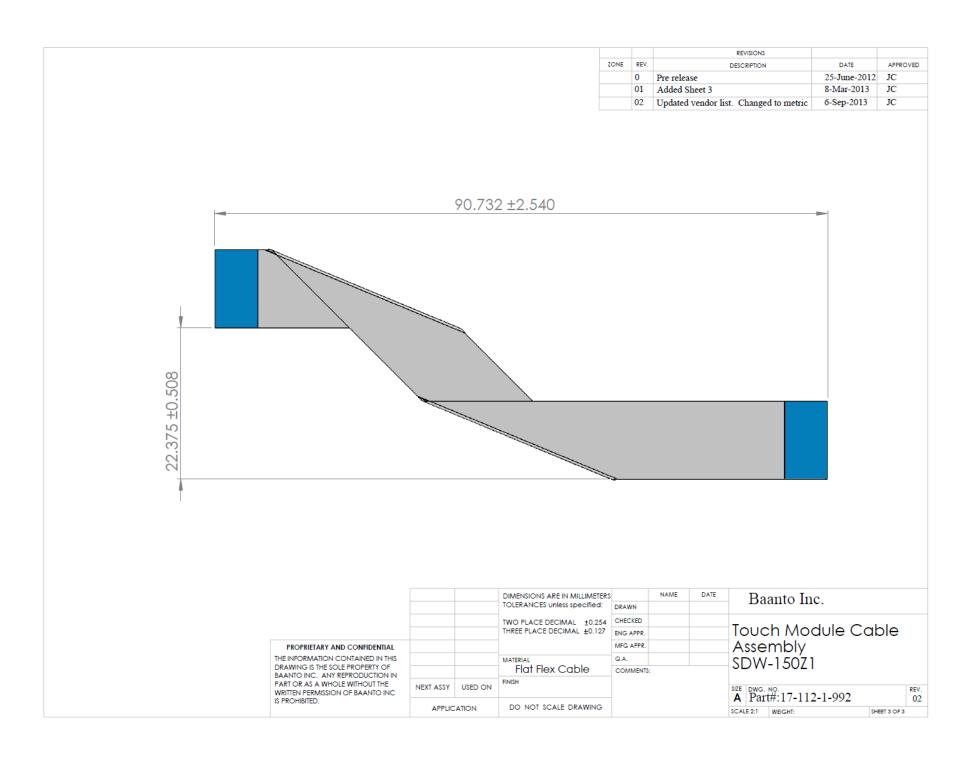




# 6.0 Cable Assembly Specifications







### **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

### 8.0 **Environmental Specification**

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

### **Regulatory Test Standards** 9.0

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	EN 61326-1:2006
requirements - Part 1: General requirements	
Industrial, Scientific and Medical Equipment – Radio Frequency	EN 55011:2011
disturbance Characteristics – Limits and Methods of Measurement	
Electromagnetic compatibility (EMC). Limits for harmonic current	EN 61000-3-2:2006+A1+A2
emissions (equipment input current ≤ 16 A per phase)	
Electromagnetic compatibility (EMC). Limitation of Voltage Fluctuations	EN 61000-3-3:2008
and Flicker	
Information technology equipment. Immunity characteristics	EN 55024:1998+A1+A3
Information Technology Equipment - Safety, Part 1: General Requirements	UL 60950-1



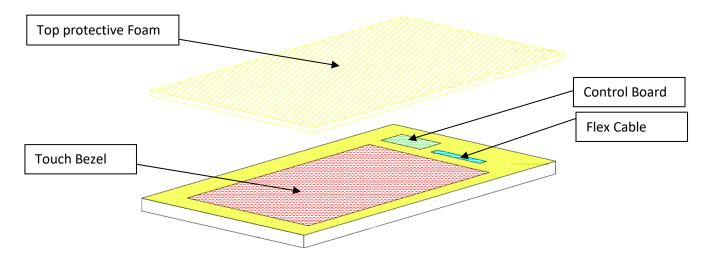




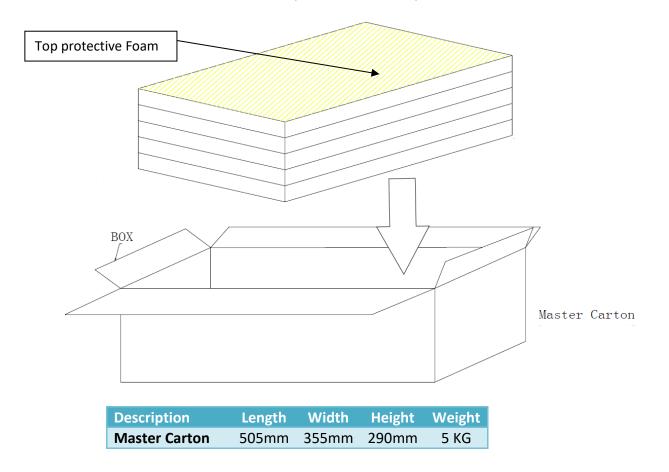


# **10.0 Packing Information**

Each touch screen is individually sandwiched between two brown moisture absorbing paper. The screen, control board and flex cable are placed in a foam cutout as shown below. A foam piece is placed on the top most 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 15" 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.

