



BMX

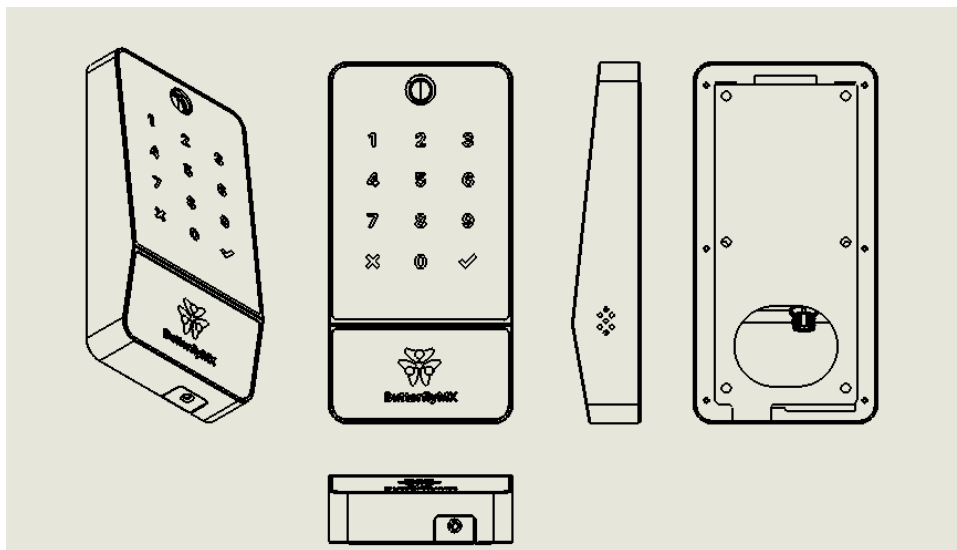
Smart Keypad

Specifications

Table of Contents

1 Mechanical specifications	3
2 Product Picture	6
2.1 Front panel	6
2.2 Color chart	7
3 Electrical specifications	8
3.1 DC characteristics.....	8
3.1.1 PoE variant.....	8
3.1.2 12VDC variant	8
3.2 Ethernet.....	8
3.3 WiFi	8
3.4 RS-485 interface (non-PoE variant only)	8
3.5 Bluetooth	9
3.6 Switched output (relay)	9
3.7 Sound output	9
4 Touch specifications.....	9
5 System specifications	10
5.1 Processor, RAM.....	10
5.2 Storage	10
6 Cable Specifications	10
6.1 For POE version	10
6.2 For Key-Locker version.....	11
6.3 Cable Variations.....	13
7 NAV Codes for ordering	13
8 Accessory	13
9 Packaging	16
10 Cosmetic Inspection standard.....	18
11 Changelog.....	18

1 Mechanical specifications



- Length: 157 mm

- Height: 30 mm

- Width: 80 mm

- Surface treatment:

Sample: black painting, matte, RAL9004

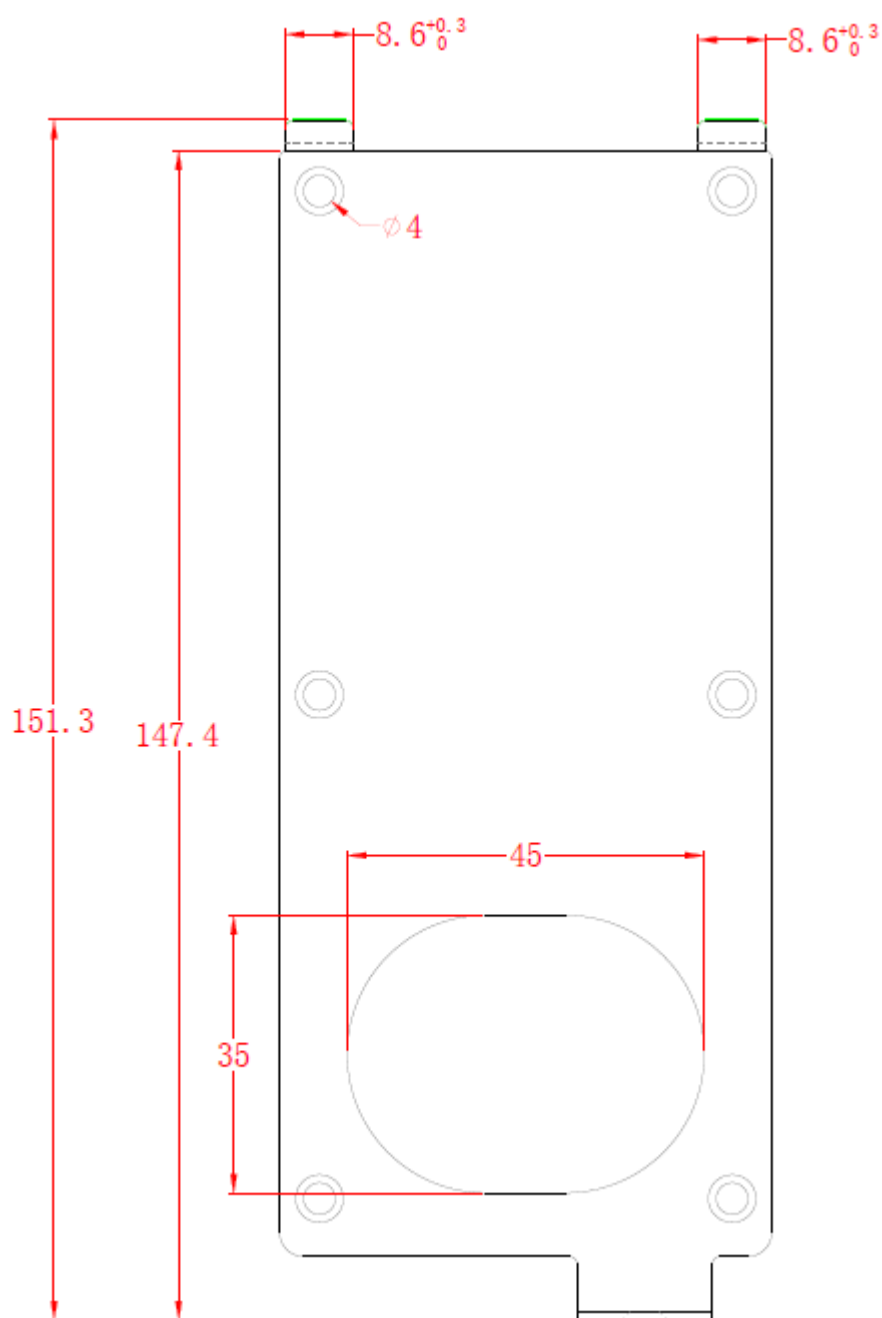
Later mold (New UL Plastic Spec.): New raw material from ABS+PC to ASA S-170 LT Grey 50283UV, which has better performance than current material on resistive UV/Sunlight, etc. No further surface treatment, but raw material directly out of mold

- Weight: 260 g (without cables, without backplate)

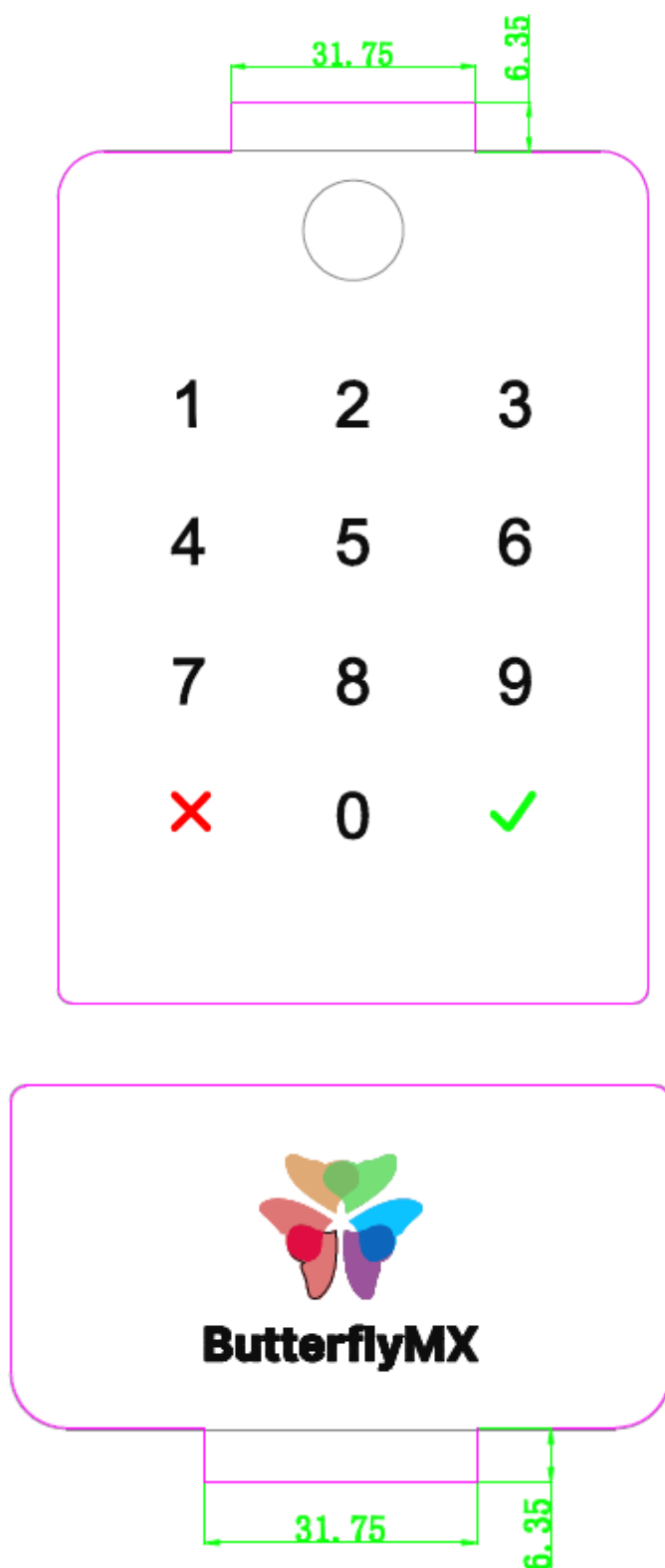
- Operating temperature: -20°C to 60°C

- IP range: IP65

- New Wallmount Plate

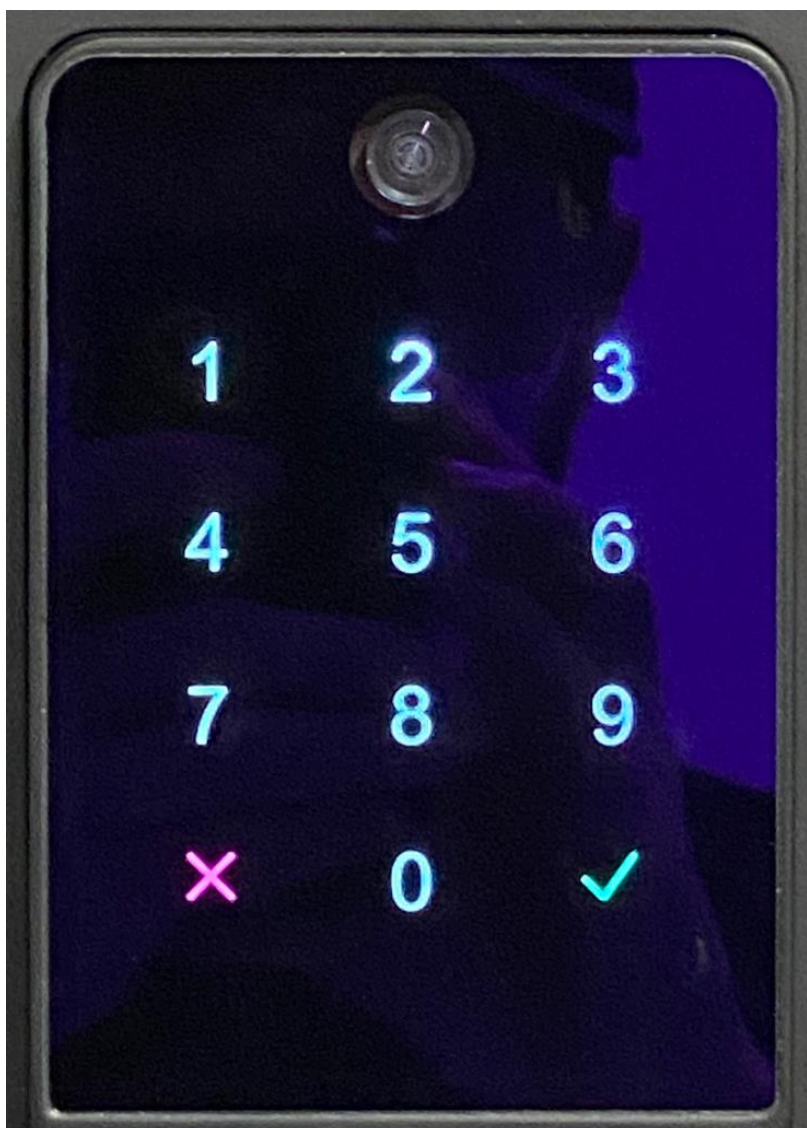


- New Protection Film

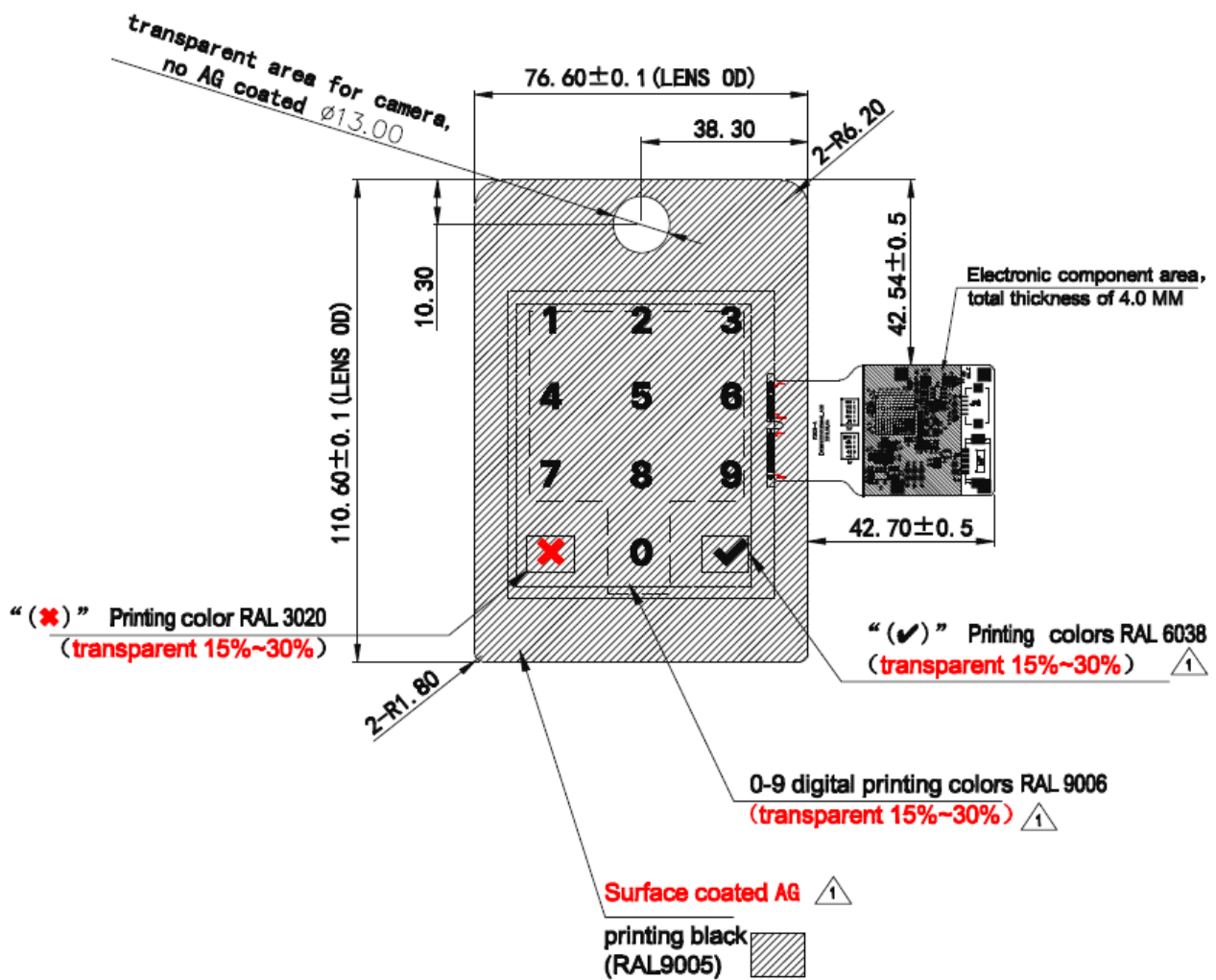


2 Product Picture

2.1 Front panel Screen print



2.2 Color Chart



Im	(Color no. CMYK)	RGB
1	C3, M40, Y64, K0	R241, G173, B98
2	C40, M10, Y95, K10	R161, G182, B34
3	C23, M2, Y76, K0	R210, G221, B86
4	C73, M8, Y4, K0	R0, G173, B226
5	C85, M32, Y3, K0	R0, G134, B220
6	C28, M90, Y10, K0	R187, G50, B132
7	C6, M97, Y15, K0	R221, G2, B118
8	C8, M100, Y90, K0	R219, G9, B36
9	C7, M73, Y14, K0	R224, G100, B146



Note: (sample 05)

3 Electrical specifications

There are two variants: one powered by Power-over-Ethernet (PoE) and the other is powered by 12VDC

3.1 DC characteristics

3.1.1 PoE variant

- Power via Ethernet according to IEEE802.3af/at/bt
- PoE class 3, up to 12.95W
- DC voltage range (PoE): 36-57 VDC
- DC maximum current (PoE): 400 mA
- Average power consumption: 2.5W

3.1.2 12VDC variant

- DC voltage range: 10-14 VDC
- DC maximum current: 1A
- Average power consumption: 2.5W

3.2 Ethernet

10/100MBit Ethernet according to IEEE802.3u, 10BaseT/100BaseT via proprietary cable with standard RJ-45 connector.

3.3 WiFi

- Wifi according to IEEE802.11b/g/n
- Frequency band: 2.4GHz ISM
- Spread spectrum: DSSS (IEEE802.11b) or OFDM (IEEE802.11g/n)
- Transmission Power(EIRP): 15.13dBm
- RS-485 interface (non-PoE variant only)

Serial port with interface according to TIA/EIA-RS-485A. Termination: external.

3.4 Bluetooth

- Bluetooth 4.0 (BLE) according to IEEE802.15.4
- Frequency band: 2.4GHz ISM
- Transmission Power(EIRP):1.32dBm
- Sensitivity (receiver): -96dBm

3.5 Switched output (relay)

- Maximum switched power: 60W or 62.5VA
- Maximum switched current: 2A
- Maximum switched voltage: 30VDC or 250VAC
- Minimum operations: 100000
- Surge voltage: 1.5kV

3.6 Sound output

- Mono sound output: 16bit, 48kHz, 0.6W

3.7 CMOS Camera

- Native resolution: 2592 x 1944
- 1/4 " sensor, 1.4 um pixel size
- rolling shutter, 30fps@1080, 15fps@native, 120fps@QVGA
- Dark current: 8mV/s
- Lens with 160° FOV

4 Touch Specification

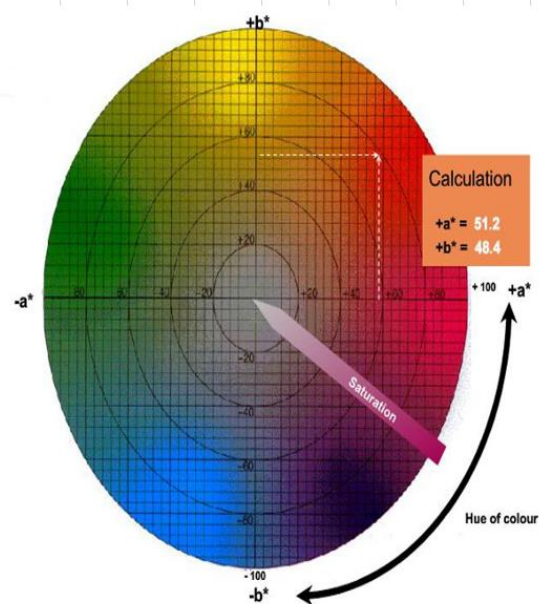
- Touch Technology: Projective Capacitive Touch
- Touch Solution: EETI 80W32
- CG thickness: 1.1mm
- Touch Sensor thickness: 0.5mm
- Surface Treatment:

AR+ AF

AR Color Standard:

AR surface Treatment corlor Data Testing Standard				
NO.	Lab*Value (Standard): 32 ± 5	a*Value (Standard): 9 ± 3	b*Value (Standard): -20 ± 5	Color Oriented
1	33.47	9.09	-16.22	Purple Blue Oriented
2	33.86	9.72	-16.26	
3	33.38	8.8	-15.07	
4	31.4	10.04	-17.02	
5	32.97	9.54	-15.18	
6	32.76	10.18	-17.58	
7	31.98	10.08	-17.24	
8	33.11	9.91	-15.70	
9	32.46	9.7	-16.04	
10	33.29	10.61	-17.41	
11	33.15	10.86	-17.72	
12	30.7	10.65	-16.77	
13	32.81	10.37	-17.26	
14	32.68	10.18	-15.44	
15	33.4	8.51	-22.60	Blue Oriented
16	35.05	7.49	-23.81	
17	34.65	7.39	-22.62	
18	33.71	8.35	-22.59	
19	34.36	8.25	-20.37	
20	35.12	7.2	-21.21	

Lab



5 System specifications

5.1 Processor, RAM

- NXP I.MX6ULL ARM Cortex A7 single core CPU
- Frequency up to 900MHz
- 512MByte DDR3 DRAM

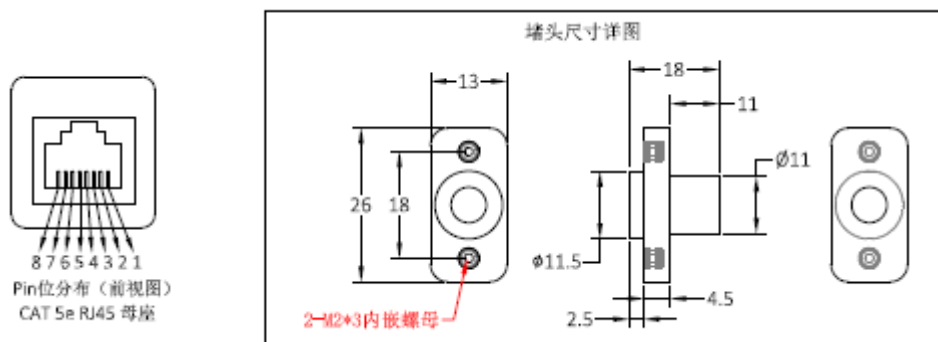
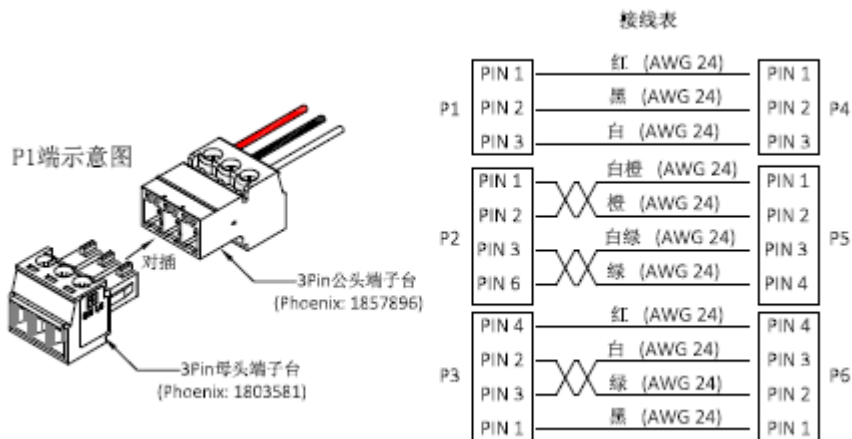
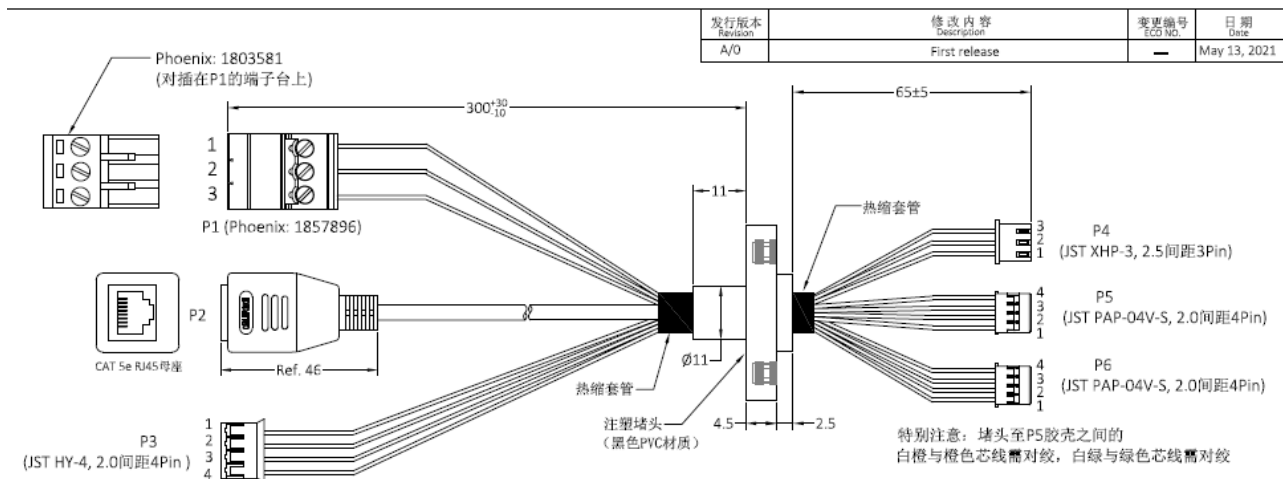
5.2 Storage

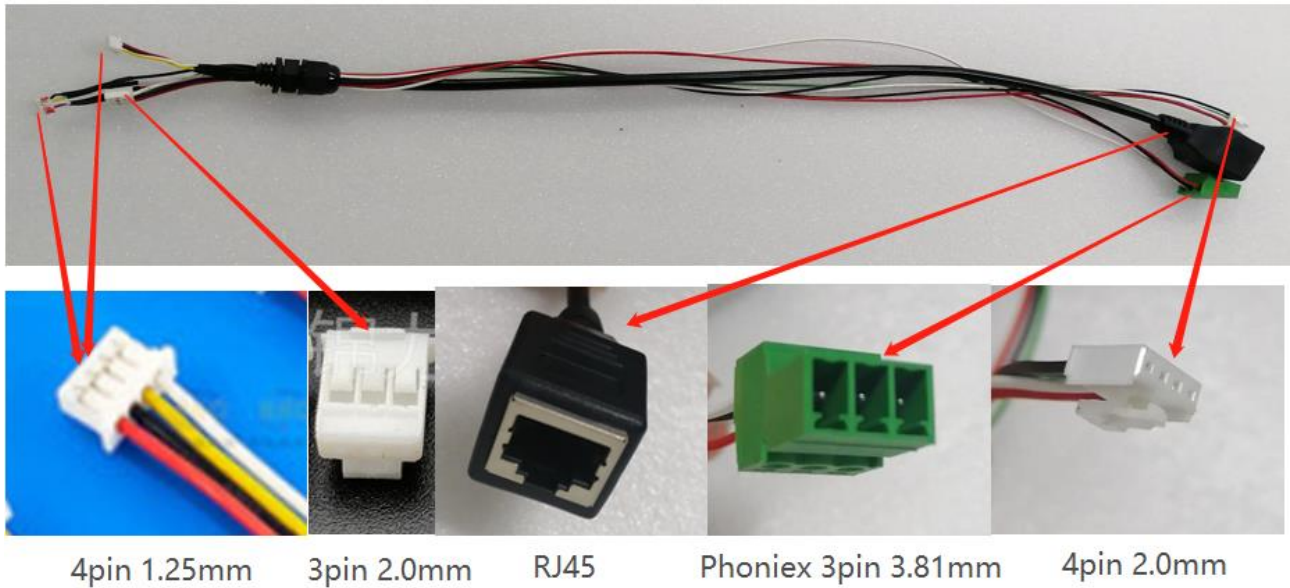
- eMMC, soldered BGA, 4 GByte

6 Cable Specification

6.1 For PoE version

- M10 7PIN AIO (3pin Relay, 4pin POE)-- External





6.3 Cable variations: TBD

Note: each variation request MOQ 500pcs.

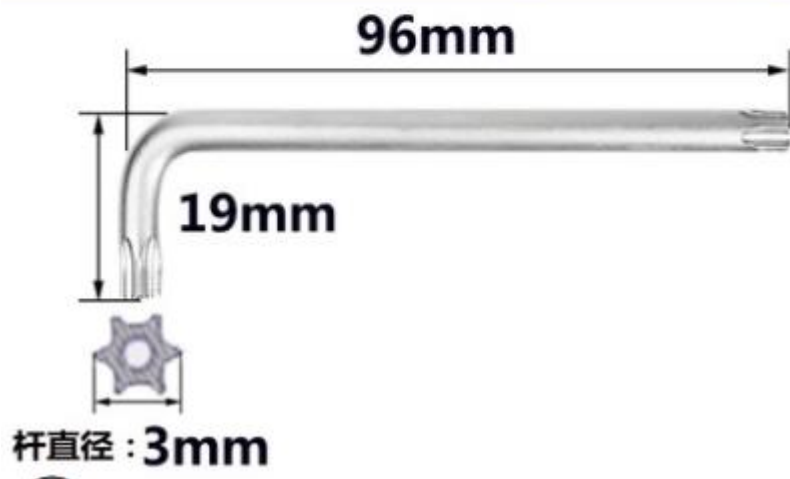
7 NAV Codes for ordering

- 3030505011 SmartKeypad Key-Locker Version without RFID
- 3030505009 SmartKeypad POE Version with RFID
- 3030505010 SmartKeypad POE Version without RFID

8 Accessory

- Torx-bit Screwdriver

T10 (加长款)



Screws:

M3 for Smartkeypad



M4 for Keylocker



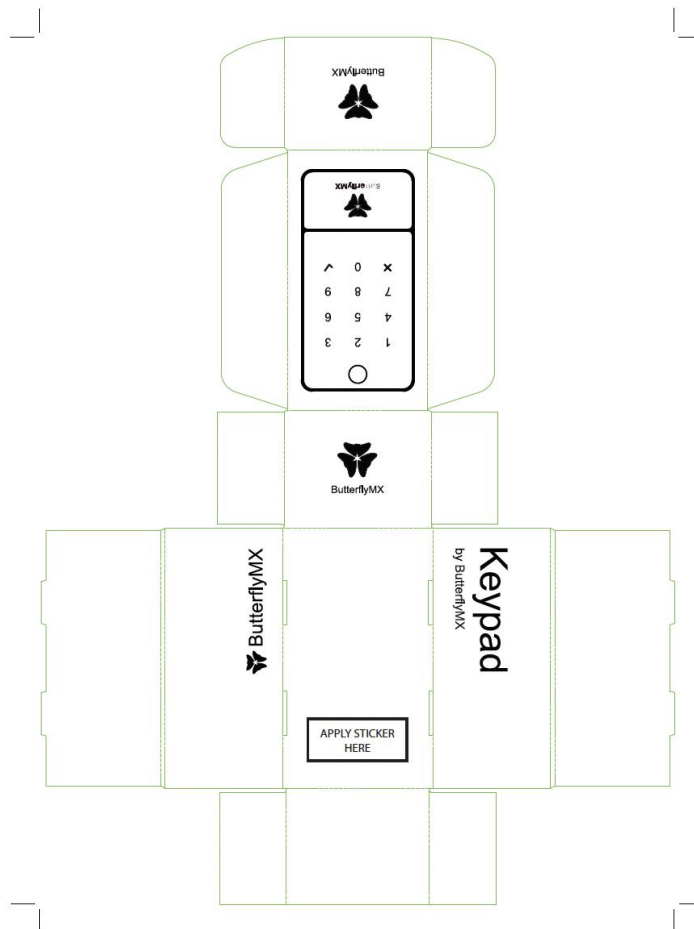
M4x8 For Keylocker

Wallmount Screws for Smart Keypad

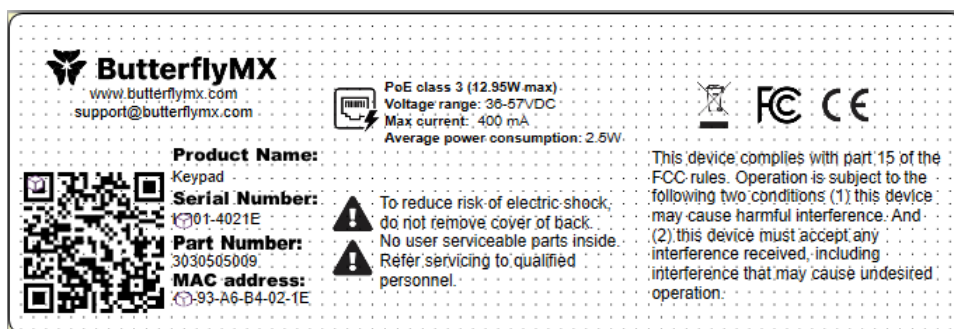


9 Packing

- Box design



Serial Number Design:



Keypad Serial Number Label Design



Keypad Box Label Design

10

11 Cosmetic Inspection Standard

- FTQA-TS-033 Keypad plastic part inspect criteria(EN)

12 Changelog

- 1.9.2020 L. Felten initial version
- 16.10.2020 Nathan. Lu
- 19.10.2020 Nathan. Lu
- 22.10.2020 Nathan. Lu
- 10.11.2020 Nathan. Lu
Operation temperature update from 0-60 to be -20~60
- 05.01.2021 Nathan. Lu
Mechanical design update on the cable and back cover
Color chart: logo color
Cables changes, for both POE and KeyLocker
Adding in packing
- 08.03.2021 Nathan. Lu
Typo correction: matte/shiny

Surface treatment for touch panel glass and BMX Logo glass: GLARE+AR+AF

Leave away surface treatment options

Cutsheet drawing for keylocker cable not available, adding in actual cable picture.

Adding in screw driver pictures

Adding in label on box: TBD

Adding in keypad label first draft, final version TBD

Adding in install sticker/cardboard TBD

Adding in cable variations: TBD, MOQ500pcs for each variation

- 12.03.2021 Nathan. Lu

Surface treatment: updated to be AR+AF

Screenprint updated

Added in connectors pictures for the cable to Keylocker

Update screw driver and screws pictures

- 04.02.2021 Nathan. Lu

Leave away NAV: 3030501916 SmartKeypad Key-Locker Version with RFID

Adding in AF color standard

- 09.16.2021 Nathan. Lu

Add in new UL plastics Spec

add in new wallmount plate

add in new screw driver

add in new wallmount screws

update official drawing for the AIO cable for smartkeypad, keylocker version

add in cosmetic inspection standard

- 09.24.2021 Will Vandever

- Updated label design for serial number label as well as keypad box label

- Updated device drawing to include updated backplate design

- Updated packaging design

12.1.1 FCC Radio Frequency (RF) Exposure Statement

This equipment has been evaluated and to be compliant with the FCC Radio Frequency exposure limits. This equipment should be installed and operated with minimum distance of 20cm between the radiator and the person. The equipment's transmitter must not be co-located or to be operated in conjunction with any other RF antenna or a transmitter.

FCC Compliance Statement

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Notice: The FCC regulations provide that changes or modifications not expressly approved by Faytech Tech.Co., Ltd could void the user's authority to operate the equipment.

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.