

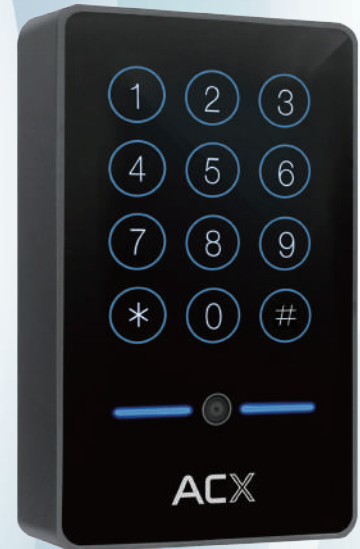
**X2** multi- technologies keypad reader embedded Bluetooth, NFC, QR code and different kinds of contactless smart card technologies, it becomes a perfect design for true-contactless and high accuracy contactless smart card, mobile device cross-platform application.

X2 keypad reader is suitable for indoor installation environment, it made by high quality material to ensure enhanced reliability and long-term duration.

Reader has wiegand and scramble encryption output which suitable for different security level applications.

Embedded Bluetooth & NFC technology can read the encrypted virtual credential number from Android phone and iPhone.

QR Code scanner can read the scramble QR code as a virtual credential number from Android phone and iPhone.



## KEY FEATURES

- QR Code scanner with backlight, 4cm to 22cm read range
- The reader can read the scramble QR code by ACX mobile APPS for access control system
- The reader can read the fixed QR code image by mobile or label for visitor management system
- 12 capacitance keys with black light
- 2.4GHz Bluetooth 4.0+ works with ACX mobile apps
- 13.56MHz NFC works with ACX mobile apps
- 13.56Mhz Card technology includes LEGIC Prime and Advant, CSN for Mifare Classic, Mifare Plus, Mifare DESFire , SONY Felica and PicoPass
- RED / Green / Blue or mixed color reader LED for visual notification, reader buzzer for audio notification
- User defined reader's visual and audio notification for access granted and access denied
- Optical sensor for tamper protection, I am alive feature
- Reader outputs Wiegand and ACX proprietary scramble encryption RS485 format
- Reader LAN cable for clock synchronous and for visitor management system (API provided)

# Specification

X2 Bluetooth QR Code card multi-technologies Keypad Reader				
Card Technology	HID iCLASS	HID 125KHz	EM	Mifare Classic
Card number output	32 ~ 64 bits CSN	HID card number	32 bits CSN	32 ~ 56 bits CSN / Sector
Item No. ( RF / RF+BLE )	X211 / X2T1	X212 / X2T2	X213 / X2T3	X214 / X2T4
Card Technology	SONY Felica CSN	Mifare Plus S/X	Mifare DESFire EV1 / EV2	LEGIC Prime / Advant
Card number output	32 ~ 64 bits CSN	32 ~ 56 bits CSN / Sector	32 ~ 56 bits CSN / File	32 ~ 64 bits CSN / Sector
Item No. ( RF / RF+BLE )	X215 / X2T5	X216 / X2T6	X217 / X2T7	X218 / X2T8
Key Authentication	Custom 128 bits diversify key			
Card Data Security	Max. 64 bits card number mixed with original CSN, custom AES 128 bits key data encryption, CRC16			
Reader output	ACX Proprietary scramble RS485 output			
QR Code min. resolution	5 mil, 1 mil = 0.0254mm			
QR Code resolution	640 x 480			
QR Code scanning angle	± 60° for left & right, ± 40° for front and back, 360° rotation			
QR Code scanning range	4cm to 22cm			
NFC Technology	13.56 MHz NFC			
Typical Read Range	Bluetooth Technology : 0.5m to 10m, NFC : 2cm to 4cm 125khz : 4cm to 8cm, 13.56MHz : 2cm to 6cm Typical read range achieved in air; different types of metal will cause some degradation Use spacers to space product off metal and improve read range if required.			
I am alive	User define 1 bytes "I am alive" data in a certain interval			
Reader cable	LAN 6 pins connector, Pigtail 10 wires			
Mounting	Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing			
Visual indicator	LED line in RED / Green / Blue / Amber / Purple / White / Light Purple color, user defined LED ON / OFF time interval			
Audio indicator	Internal buzzer, user defined beep sound ON / OFF time interval (ms)			
Color	Black or White			
Keypad	Backlight, touch sensor technology, 12 Keys, 0 to 9, *, #			
Dimension	80 mm x 130 mm x 20 mm			
Product weight	150g			
Operating Voltage	9-16 VDC, Linear supply recommended			
Operating Current	150mA AVG, 120mA PEAK			
Operating Temperature	- 31° to 150° F (-35° to 65° C)			
Storage Temperature	-67° to 185° F (-55° to 85° C)			
Operating Humidity	5% to 95% relative humidity non-condensing			
Housing Material	Polycarbonate			
Cable Distance	RS485 interface: 4000 feet (1200 m), Wiegand interface : 500 feet (150m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent			