

物聯鎖技術規格書

IoT Lock Technical Specification

系列Series: E-1507

類別Item: 物聯鎖 IoT Lock

開鎖方式：機械鑰匙+遠程+密碼（選配）+刷卡（選配）
+指紋（選配）+藍牙（特規）

Mechanical key+Remote Control+ Keypad password (Optional) +Card
(Optional) +Fingerprint (Optional) +Bluetooth (Non-standard)



力卡實業有限公司

LEEKA INDUSTRIAL Co.,Ltd

地址：台中市西屯區工業區38路210號5F-2

Address:5F-2, No. 210, 38th Rd., Taichung Industrial Park, Xitun Dist., Taichung
City 40768, Taiwan, R.O.C.

Tel:04-23598798 Fax:04-23598762 E-mail: info@leeka.com.tw

目錄 Contents

一、技術參數 Technical Parameter	1
二、操作說明 Operation Instructions	4
2.1 機械鑰匙開鎖 Open with Mechanical key ;	4
2.2 DO 遠程開鎖 Open the IoT Lock with DO Remote control ;	4
2.3 RS485 遠程開鎖 Open the IoT Lock with RS485 Remote control ;	4
2.4 密碼開鎖 (選配) Open the IoT Lock with Password (Optional) ;	4
2.5 刷卡開鎖 (選配) Open the IoT Lock with Card read (Optional) ;	4
2.6 指紋開鎖 (選配) Open the IoT Lock with fingerprint (Optional) ;	4
2.7 掃碼開鎖 (特規) Access Way of QR Code: (Non-standard)	4
三、尺寸圖 Dimension	5
四、安裝示意圖 Installation Diagram	5
五、接線示意圖 Wiring Diagram	6
六、裝箱清單 Packing List	6
七、系統架構圖 System Architecture Diagram	7
八、管理平台 Management Platform	8
九、注意事項 Precautions	9
附件 1、產品型號目錄	10

一、技術參數 Technical Parameter

整體規格 General Specification	項目 (Item)	規格/條件 (Specification/Condition)		
	型號 Model	詳見 P10---附件 1: See details P10-----Annex 1		
	外型尺寸 Dimension	See Drawing		
	額定電壓 Rated Voltage	DC 12V		
	操作電壓 Operating Voltage	DC 12V ±20%		
	功率 Power consumption	0.96W	1) At25°C, 65%RH 2) Rated Voltage	
	額定電流 Rated current	≤80mA		
	IP 防護等級 International Protection	IP40		
	開鎖方式 Access Way	機械鑰匙+遠程+密碼 (選配)+刷卡 (選配)+指紋 (選配)+藍牙 (特規) Mechanical key+Remote Control+ Keypad password (Optional)+Card (Optional) +Fingerprint (Optional) +Bluetooth (Non-standard)		
	防火等級 Fire rating	UL94-V0		
	鎖芯類型 Cylinder Type	歐標鎖芯 European Standard Cylinder		
	驅動方式 Drive Way	直流電機 Motor		
	重量 Weight	0.5KG		
	零件規格 Parts Specification	名稱 (Name)	材質 (Material)	表面處理 (Finish)
基座 Housing		尼龍玻纖 PA+30%GF	無 Natural	
手柄 Handle		鋅合金 Zinc Alloy	麻面黑 Black textured Power Coated	
鎖舌 Cam		鐵 Mild Steel	藍白鋅 Zinc Plated	
鎖芯 Cylinder		銅 Copper	鍍鎳 Nickel plated	

	裝置板 Mounting Bracket	鐵 Mild Steel	藍白鋅 Zinc Plated
硬體規格 hardware Specification	名稱 (Name)	規格 (Specification)	
	硬體平台 Hardware platform	MCU	
	485 通信晶片 Communication chip	支援 support	
	指紋模組 Fingerprint module	支援 support	
	卡片類型 Card Type	IC Card 13.56Mhz	
通信 Communication	RS485	支援 support	
	DO/DI	支援 support	
	Wiegand	支援 support	
硬體接口 Hardware interface	指示燈 LED	RGB LED	
	無源蜂鳴器 Buzz	MLT-8530	
	外接口 External connection	GH1.25-8P 母座 female joint	
	按鍵 button	貼片式銅按鍵 12 個 Patch brass key 12PCS	
其他參數 Others	儲存能力 Storage	200 張卡片 200PCS Card	
	密碼位數 Password digits	6 位數字密碼 6 digital code	
	指紋組數 Fingerprint	99 組指紋 99 sets of fingerprints	
環境條件 Environmental Specification	項目 (Item)	條件 (Specification/Condition)	
	工作環境 Operating Conditions	溫度 Temperature: -10 ~+65°C 濕度 Humidity: 5 ~ 90%	
	儲存環境 Storage Conditions	溫度 Temperature: -30 ~+80°C 濕度 Humidity: 0 ~ 90%	
	海拔高度 Elevation height	海拔 Elevation: -60m~4000m	
	電子部件保固期 Electronic parts expect Life	3 years @ 25°C/ 85% Relative humidity (RH)	
	機構部件保固期 Mechanical parts expect Life	3 years @ 25°C/ 85% Relative humidity (RH)	

	包裝耐振動試驗 Packing Vibration Test	包裝後·XYZ 三方向施 1.1G 加速度,振 30 分鐘後無異狀 .Packing Condition: X,Y,Z 3 directions, 1.1G load vibration test for 30 min no serious damaged.
	包裝耐衝擊試驗 Packing Shock Proof Test	摺包後，高 60 公分，1 棱角 3 邊 6 面自然落下，無嚴重損壞. 1 corner,3 edges, 6 faces natural drop from 60cm high packing no serious damaged.

註： 文本中藍色參數為選型參數，如果採購產品不帶此功能可以忽略。

Note: The blue parameters in the text are the selection parameters, if the purchased product does not have this function, it can be ignored.

二、操作說明 Operation Instructions

2.1 機械鑰匙開鎖 Open with Mechanical key ;

將鑰匙插入鎖芯孔順時針旋轉 180 度，掀起手柄進行開鎖動作。

Insert the key into the cylinder and turn it clockwise 180 degrees, and lift the handle to unlock the lock.

2.2 DO 遠程開鎖 Open the IoT Lock with DO Remote control ;

將兩根 DO 線短接最少 0.2 秒（不超過 1 秒），此時鎖具狀態指示燈由藍色變為綠色閃爍並伴隨蜂鳴器響，當鎖具狀態指示燈變為綠色常亮時，掀起手柄進行開鎖動作。


Insert the key into the cylinder and turn it clockwise 180 degrees, and lift the handle to unlock the lock.


2.3 RS485 遠程開鎖 Open the IoT Lock with RS485 Remote control ;

將兩根 RS485 通信線連接到控制器的 RS485 接口，控制器成功下發開鎖指令，此時鎖具狀態指示燈由藍色變為綠色閃爍並伴隨蜂鳴器響，當鎖具狀態指示燈變為綠色常亮時，掀起手柄進行開鎖動作。

Connect the two RS485 communication lines to the RS485 interface of the access unite. When the access unite successfully issues the unlock command, at this time, the indicator changes from blue to green with blink and the buzzer sounds. The moment indicator turns to green and always on, the handle can be lifted to unlock.

2.4 密碼開鎖（選配）Open the IoT Lock with Password（Optional）；

在鎖具的密碼輸入區域輸入已授權的密碼並按  鍵確認；此時鎖具狀態指示燈由藍色變為綠色閃爍並伴隨蜂鳴器響，當鎖具狀態指示燈變為綠色常亮時，掀起手柄進行開鎖動作。（密碼權限設置參照“編程說明”）

Enter the authorized password in the password input area and press the  button to confirm. At this moment the indicator light turns from blue to green with blink and the buzzer sounds. When green of the indicator light turns green and keeps on, then you can lift the handle and open the lock. (For the password authority setting, please refer to "Programming instructions")

2.5 刷卡開鎖（選配）Open the IoT Lock with Card read（Optional）；

將已授權的 IC 卡在鎖具刷卡區域進行刷卡；此時鎖具狀態指示燈由藍色變為綠色閃爍並伴隨蜂鳴器響，當鎖具狀態指示燈變為綠色常亮時，掀起手柄進行開鎖動作。（IC 卡權限設置參照“編程說明”）

Read the authorized IC card in the card read area; at this moment the indicator light turns from blue to green with blink and the buzzer sounds. When the indicator light turns green and keeps on, then you can lift the handle and open the lock. (For the card authority setting, please refer to "Programming instructions")

2.6 指紋開鎖（選配）Open the IoT Lock with fingerprint（Optional）；

將已授權的指紋在鎖具指紋認證區域進行輸入；此時鎖具狀態指示燈由藍色變為綠色閃爍並伴隨蜂鳴器響，當鎖具狀態指示燈變為綠色常亮時，掀起手柄進行開鎖動作。（添加指紋設置參照“編程說明”）

Read the authorized finger print in the fingerprint read area. At this moment the indicator light turns from blue to green with blink and the buzzer sounds. When indicator light turns green and keeps on, then you can lift the handle and open the lock. (For the finger print authority setting, please refer to "Programming instructions")

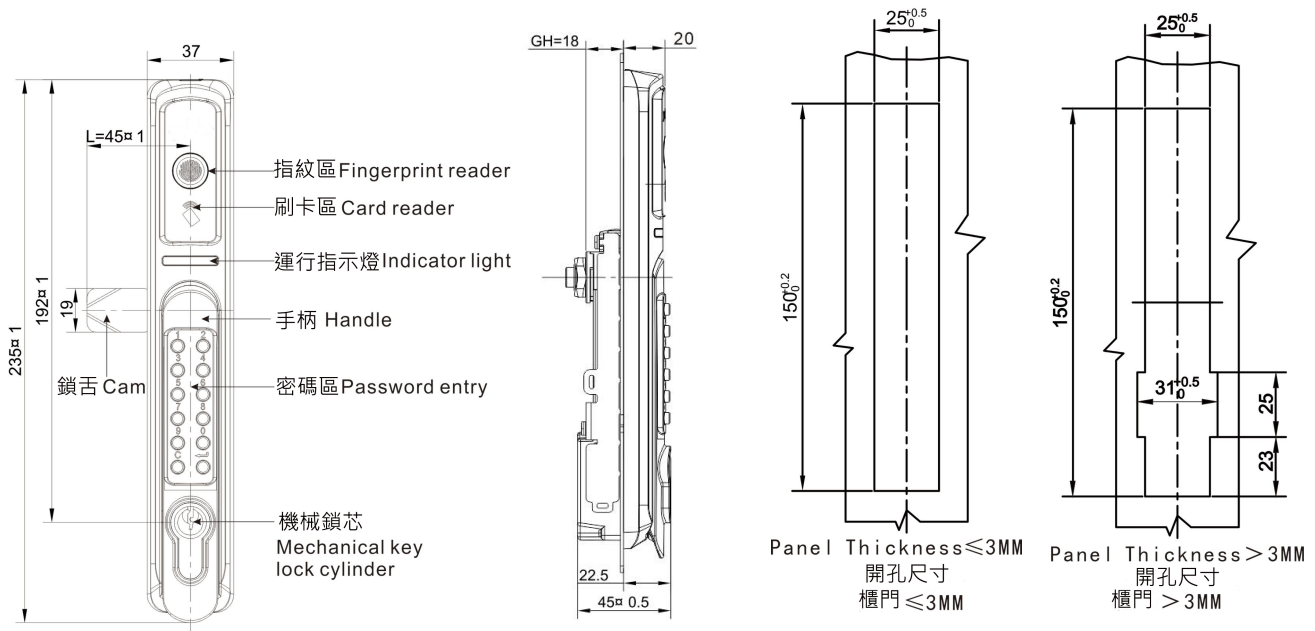
2.7 掃碼開鎖（特規）Access Way of QR Code: (Non-standard)

使用手機 APP 在鎖具的 QR Code 識別區域掃 QR Code 並在手機上操作；此時鎖具狀態指示燈由藍色變為綠色閃爍並伴隨蜂鳴器響，當鎖具狀態指示燈變為綠色常亮時，掀起手柄進行開鎖動作。

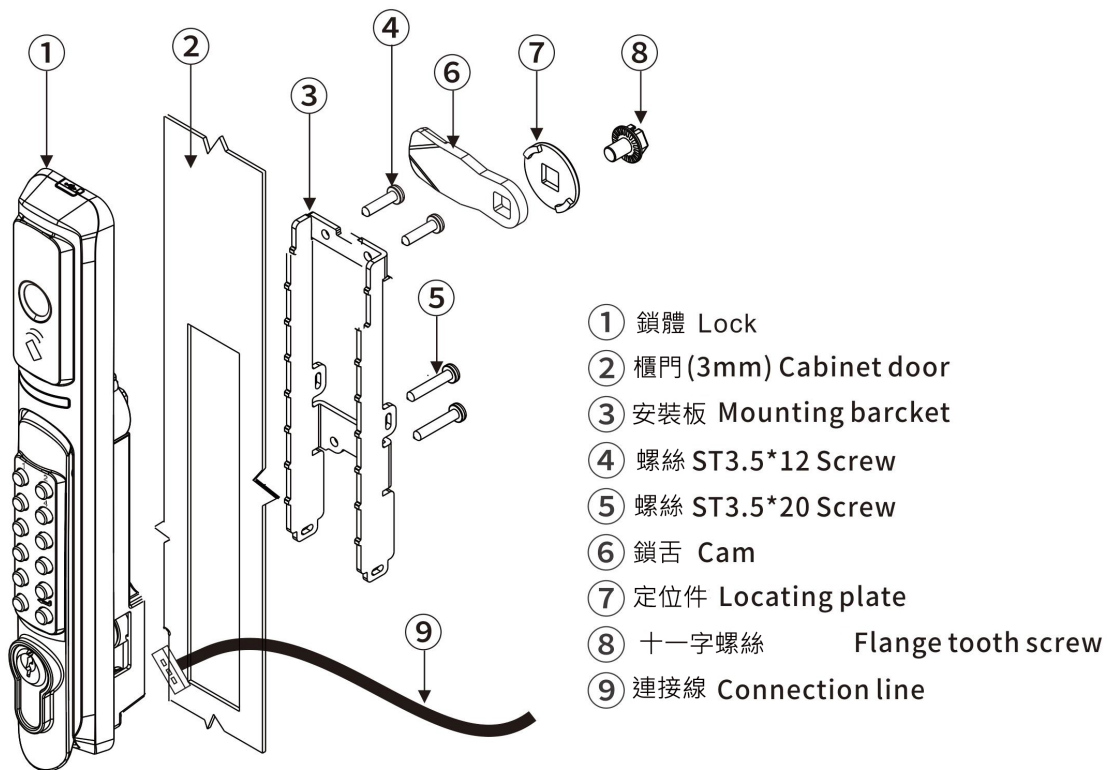
Use the mobile APP to scan the QR code in the QR code recognition area and operate it on the

mobile phone. At this moment the indicator light turns from blue to green with blink and the buzzer sounds. When indicator light turns green and keeps on, then you can lift the handle and open the lock.

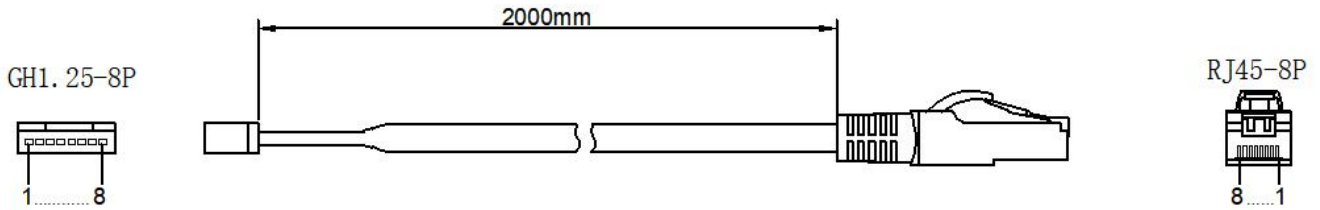
三、尺寸圖 Dimension











四、安裝示意圖 Installation Diagram



五、接線示意圖 Wiring Diagram

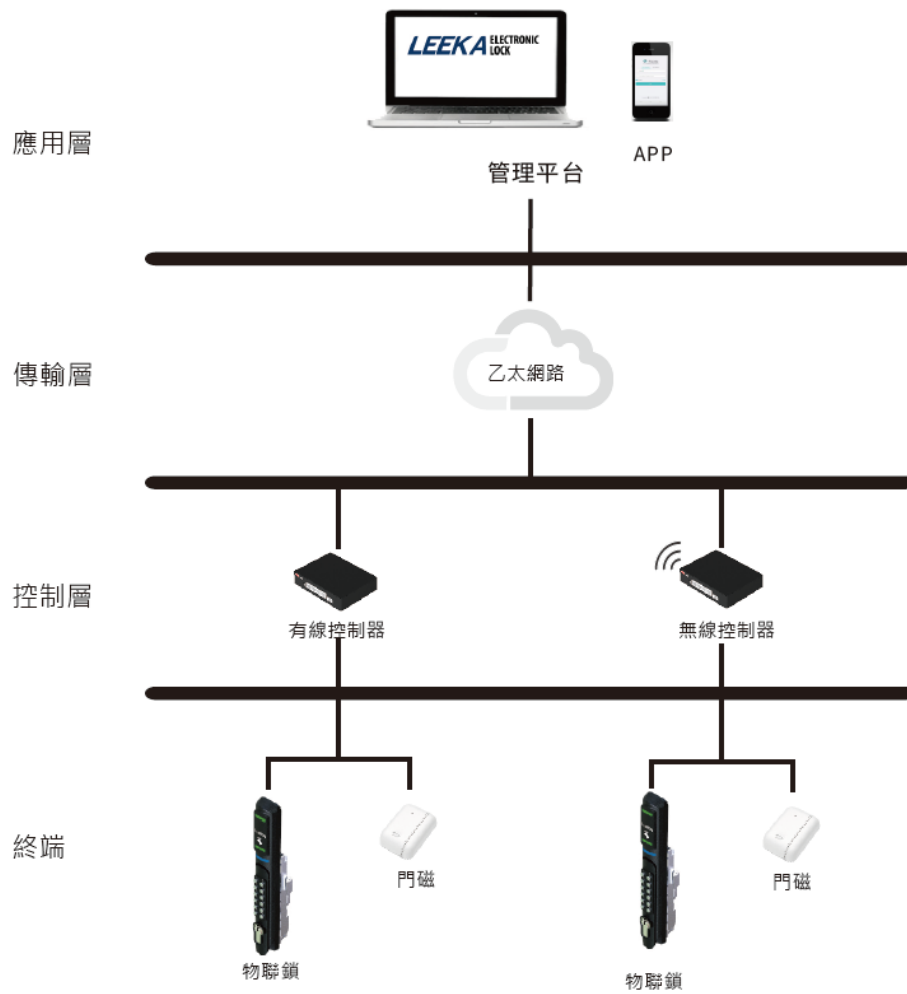


引腳序號 Pin No	引腳顏色 Pin Color	引腳定義 Pin definition	備註 Note
1	紅色 Red 	12V +	電源線 Power line
2	黑色 Black 	GND	
3	黃色 Yellow 	485+	RS485 通信線 RS485 Communication line
4	綠色 Green 	485-	
5	白色 White 	DO+	DO 信號線 DO signal line
6	藍色 Blue 	DO-	
7	橙色 Orange 	NC(預留 reserve)	預留端口 Reserved ports
8	棕色 Brown 	NC(預留 reserve)	

六、裝箱清單 Packing List

E-1507 系列 裝箱清單 E-1507 Series Packing List				
序號 No	附件名稱 Accessories name	單位 Unite	數量 Quantity	備註 NOte
1	物聯網 IoT lock	把 PCS	1	E-1507
2	連接線 Connecting wire	根 PCS	1	L=2M
3	IC 卡 (當鎖具有讀卡功能時) IC card (when the lock have the function of read card)	張 PCS	1	配件 Accessory
4	說明書 Manual	份 PCS	1	配件 Accessory
5	安裝板 Mounting bracket	塊 PCS	1	配件 Accessory
6	機械鑰匙 Mechanical Key	把 PCS	2	配件 Accessory
7	ST3.5*12 螺絲 ST3.5*12 screw	個 PCS	2	配件 Accessory
8	ST3.5*20 螺絲 ST3.5*20 screw	個 PCS	2	配件 Accessory
9	十一字法蘭齒螺絲 Hex Head Cap Screw	個 PCS	1	配件 Accessory
10	定位件 Locating piece	個 PCS	1	配件 Accessory

七、系統架構圖 System Architecture Diagram



八、管理平台 Management Platform



功能特點 Features

監控中心 Monitor Center

- 設備訊息總覽
Equipment Information overview
- 透過顏色變化顯示鎖具狀態
Display lock status by color change
- 實時告警提醒
Real-time alarm alerts
- 強大的搜索查詢功能，快速定位到鎖具
Powerful search query function to get rapid positioning of the lock

設備管理 Equipment Management

- 鎖具區域設置
Set the lock area
- 管理鎖具及控制器功能
Manage lock and control unit

用戶管理 User Management

- 用戶權限管理功能
User authority management
- 用戶部門管理功能
User department management

任務管理 Task Management

- 任務下發功能
Task dispatching

記錄查詢 Records query

- 操作記錄查詢功能
Operation record query
- 報警記錄查詢功能
Alarm record query

數據分析 Data Analysis

- 開鎖數據分析
Data analysis of unlocking and humidity
- 其他傳感器數據分析
Data analysis of other sensors

九、注意事項 Precautions

- 9.1 使用時請勿超出本規格所規定之極限。
Don't exceed the specified limits in this specification during use.
- 9.2 如有任何資料及文件與此份不同，將以此份資料為主要參考。
If there is any data or related documentation different from this data sheet, this data is the principle reference.
- 9.3 倘若要變更此份文件的任何規格，請務必事先提出要求。
Please put forward the request in advance if you want to change any specifications of this document .
- 9.4 請勿將電源線纏繞著鎖或用力拉扯電源線，如此電源線將會被損壞造成功能失效。
Please don't twist the power line around the lock or pull the power line forcibly, in that condition the power line will be damaged and cause function failure.
- 9.5 請勿在可燃性氣體與任何有害環境中使用。
Please don't use in flammable gas and any detrimental environment.
- 9.6 當搬運或安裝作業中，電子鎖如掉落地面，將會造成鎖損壞。
If the IoT Lock is dropped on the ground during carry or installation, the lock will be damaged.
- 9.7 鎖外殼之螺絲扭力矩推薦 0.8N.m 不得超過 1.2N.m。
The torque of the screw of the lock housing shall not exceed 1.2N.m.
- 9.8 門鎖在門上安裝過程中，不得敲擊門鎖，以免損壞門鎖零件，安裝人員需帶手套。
During the installation of the lock, don't knock on the lock to avoid lock from damaging. The installer must wear gloves.
- 9.9 安裝時門板需保持水平，櫃門固定孔須與鎖體外形相對。
The panel must be kept horizontal during installation, and the fixing holes of the cabinet door must be opposite to the shape of the lock.
- 9.10 不可用重力敲打鎖體，不可用化學物質擦拭鎖體表面以防電鍍層腐蝕。
Don't strike the lock body forcibly and don't wipe the lock's surface with chemicals to prevent the plating layer from corrosion.

附件 1、產品型號目錄

序號	品號	圖片	開啟方式	備註
1	E-1507-126-20		機械鑰匙+遠程 Mechanical key+Remote control	
2	E-1507-1216-20		機械鑰匙+遠程+密碼 Mechanical key+Remote control+Password	
3	E-1507-1226-20		機械鑰匙+遠程+刷卡 Mechanical key+Remote control+ Card read	
4	E-1507-1236-20		機械鑰匙+遠程+藍牙 (掃碼) Mechanical key+Remote control+ Bluetooth code	特規
5	E-1507-1246-20		機械鑰匙+遠程+指紋 Mechanical key+Remote control +Fingerprint	
6	E-1507-12126-20		機械鑰匙+遠程+密碼+刷卡 Mechanical key+Remote control+Password+Card read	
7	E-1507-12146-20		機械鑰匙+遠程+密碼+指紋 Mechanical key+Remote control+Password +Fingerprint	

8	E-1507-12246-20		機械鑰匙+遠程+刷卡+指紋 Mechanical key+Remote control +Card read+Fingerprint	
9	E-1507-121246-20		機械鑰匙+遠程+密碼+刷卡+指紋 Mechanical key+Remote control+Password+Card read+Fingerprint	

註：上述為E-1507 系列物聯鎖標配選型，如有特殊需求請與我司銷售經理說明，以免發生選型錯誤。