



HID® iCLASS SE® Connectivity Module Install Guide

Compatible with iCLASS SE reader models:
R10 | RP10 | R15 | RP15 | R40 | RP40 | RK40 | RPK40 | R95

Supplied parts

- iCLASS SE Connectivity Module
- Install guide
- Metallic reflective sticker
- FCC/IC regulatory label

Recommended parts (not supplied)

- HID Reader Manager™ app to complete module set up
- Drill with various bits for mounting reader
- Torque driver

Module installation

Download the latest versions of HID Reader Manager from the App Store or Google Play.

App Store
(Apple devices)



Google Play
(Android devices)



1. Disconnect the power from the reader.
2. Remove the reader from the backplate.
3. Remove the electrical tape covering the module expansion slot on the back of the reader.
Note: If there is already a module installed, carefully remove it. You can discard the old module as it will be replaced by the iCLASS SE Connectivity Module.
4. Insert the iCLASS SE Connectivity Module into the expansion slot.
Note: Take care not to touch the expansion slot with anything except the module as this could remove the colorless anti-corrosive compound.
5. Remove the backing from the supplied FCC/IC regulatory label and stick the label to the back of the reader.
6. Remove the reader backplate from the wall and check if there's a metallic sticker already fitted. If there is a sticker, go to step 9. If there's not a sticker, go to step 7.
7. With the paper backing still intact, align the metallic sticker from the upgrade kit with the reader backplate to ensure correct orientation.
8. Remove the paper backing from the metallic sticker and carefully adhere the sticker to the inside of the reader backplate.
Note: The metallic sticker has cut outs to allow the reader wiring to remain intact during installation.
9. Reattach the reader backplate to the wall.
10. Power on the reader and configure the iCLASS SE Connectivity Module using the HID Reader Manager app. Detailed set up instructions for module onboarding and account set up can be found in the *HID Reader Manager App User Guide (Android)* (PLT-03858) and *HID Reader Manager App User Guide (iOS)* (PLT-03683).
Note: Ensure the reader wiring is correct before powering on the reader. Refer to the reader install guide for details.
11. Once the iCLASS SE Connectivity Module is correctly set up, secure it to the reader by tightening the two screws.
Note: Only tighten the module screws once set up is complete. Repeatedly inserting or overtightening can cause damage to the screw bosses. The recommended torque for tightening is 0.2Nm.
12. Reattach the reader to the backplate.
Note: It is possible to reuse existing Wiegand wiring for OSDP however, the use of simple stranded cable typically used in Wiegand access control readers may not meet the RS-485 twisted pair recommendations.
Note: For OSDP cable lengths greater than 200ft (61m) or where EMF interference is present, install 120Ω +/- 2Ω resistor across RS-485 termination ends.

Specifications

Module Part Number	MDP-04875
SRD Model Number	BT/WiFiE
Input Voltage VDC	5 - 16 VDC
Standby Current AVG	10 mA
Peak Current	250 mA
Operating Temperature	-30° F to 149° F (-35° C to 65° C)
FCC ID	JQ6-SECONNECT
IC	2236B-SECONNECT

Product ²	Base Part Number	Input Voltage VDC	Current ¹		Peak ⁴	Operating Temperature ⁵
			Standby AVG ²	Max AVG ³		
R10	900N	5 - 16 VDC (12 VDC for RS-485)	60 mA	95 mA	200 mA	30° F to 150° F (-35° C to 66° C)
RP10	900P		75 mA	100 mA		
	900L		110 mA	135 mA		
	910N		60 mA	95 mA		
R15	910P		75 mA	100 mA		
	910L		110 mA	135 mA		
	920N		65 mA	95 mA		
RP40	920P		85 mA	100 mA		
	920L		120 mA	145 mA		
	921N		85 mA	100 mA		
RK40	921P	5.5 - 16 VDC (12 VDC for RS-485)	95 mA	105 mA	220 mA	
	921L		130 mA	155 mA		
	95AN		75 mA			
R95B	95BN	5 - 16 VDC	75 mA	125 mA	165 mA	
RP95B	95BP		90 mA			

Product ²	Cable Length ⁶	Regulatory Ref Number
R10	Communication Lines Wiegand = 500 ft - 22 AWG (152 m), 300 ft - 24 AWG (91 m) RS-485 = Max bus length: 4,000 ft - 24 AWG (1,219 m) Max length between nodes: 1,640 ft - 24 AWG (500m)	R10Ex_x ₂ x ₃
RP10		RP10Ex_x ₂ x ₃
R15		R15Ex_x ₂ x ₃
RP15		RP15Ex_x ₂ x ₃
R40		R40Ex_x ₂ x ₃
RP40		RP40Ex_x ₂ x ₃
RK40		RK40Ex_x ₂ x ₃
RPK40		RPK40Ex_x ₂ x ₃
R95A		RA30Ex_x ₂ x ₃
R95B		RPA30Ex_x ₂ x ₃ x ₄
RP95B		RPA30x_x ₂ x ₃ x ₄

¹ Communication protocols other than Wiegand or Clock & Data (for control panels), as well as credential interfaces over BLE (not applicable for 9xxL models), require an additional hardware module which increases current by 40 mA.

² Standby AVG - RMS current draw without a card in the RF field.

³ Maximum AVG - RMS current draw during continuous card reads.

⁴ Not evaluated by UL.

⁵ Peak - highest instantaneous current draw during RF communication.

⁶ When configured for Bluetooth Operating Range is -13° F to 150° F (-25° C to 65° C)

⁷ Wiegand Cable Lengths:

100ft (30.5 m) 22 AWG @ 5 - 6.4 VDC

500ft (152m) 22 AWG @ 6.5 - 16 VDC

⁸ Mobile Enabled Products, see specifications below.

UL Reference Number Deciphering:

x₁ Reader Colors: K = Black

x₂ Wiring: N = Pigtail
T = Terminal
5 = 5 meter Pigtail

x₃ Communication: N = No Module
R = RS-485 (OSDP)
L = Indala Prox
B = Bluetooth
W = WiFi

x₄ Hardware version: Blank = Potted Electronics
2 = Overmolded Electronics

Regulatory

Intended for outdoor use.

Approved to UL 294, CAN/ ULC 60839-11-1 (Grade 2), UL/ CSA/ IEC 62368-1

FCC

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

CAUTION: Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

Canada

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE Marking

HID Global hereby declares that these proximity readers are in compliance with the essential requirements and other relevant provisions of the Radio Equipment Directive 2014/53/EU.

Por el presente, HID Global declara que estos lectores de proximidad cumplen con los requisitos esenciales y otras disposiciones relevantes de la Directiva 2014/53/EU.

HID Global déclare par la présente que ces lecteurs à proximité sont conformes aux exigences essentielles et aux autres stipulations pertinentes de la Directive 2014/53/EU.

A HID Global, por meio deste, declara que estes leitores de proximidade estão em conformidade com as exigências essenciais e outras condições da diretiva 2014/53/EU.

HID Global bestätigt hiermit, dass die Leser die wesentlichen Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EU erfüllen.

HID Global dichiara che i lettori di prossimità sono conformi ai requisiti essenziali e ad altre misure rilevanti come previsto dalla Direttiva europea 2014/53/EU.

Download copies of the R&TTE Declaration of Conformity (DoC) at <http://certifications.hidglobal.com>

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.