

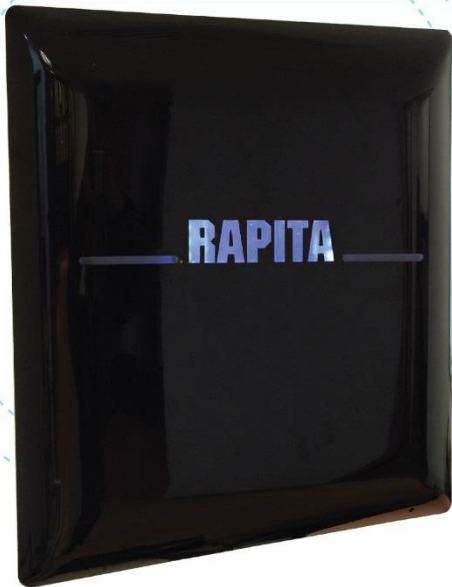
RAPITA®

Mi-RFID™

INNOVATIVE TECHNOLOGY

RFID LONG RANGE READER

Vehicle Auto-gate Security System



> Mi-1808B



> Mi-1802B

Features :

- Distance : 6 meters (MAX)
- Wiegand 26/34
- Water -proof
- Multi-protocol
- Integrated Design

- RFID Card
 - [UH / UE] Long Range Card
- Hybrid Card 2 in 1
 - [EM] Long Range + Mifare
 - [EL] Long Range + Proximity

- Material
 - [PET / PVC]

Dealer address:

ALL New Mi-1808B RFID Reader



Accessories included :



Mounting Bracket



Industrial Power Supply

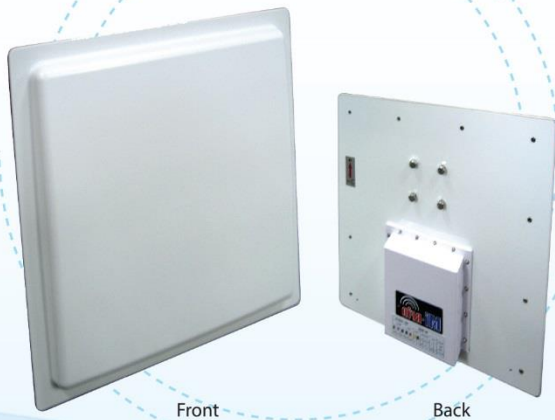


Power & Wiegand Cable

Specification

Product Code	Mi - 1808B
RF Characteristic	ISM 902~928MHz (FCC) or 919~923 MHz (MAS)
RF Power Output	0~30dBm
Power Supply	Industrial Power Supply Input : 100-240 VAC, 0.5A, Output : +12V, 6.2A
Operating Temperature	-20°C to 80°C
Indicator	LED ON : Card Reading LED OFF : No Card Detected
Casing	IP65 Rating (Black Color)
Dimension	440mm x 440mm x 50mm
Tag Read Rate	Software Programmable, Average Reading per 64Bits : <10ms
Weight	2kg
Reading Range	>6m
Interface	Rs-232C Serial Interface / RS 485, Wiegand 26/34

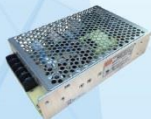
Mi-1802B RFID Reader



Accessories included :



Mounting Bracket



Industrial Power Supply



Power & Wiegand Cable

Specification

Product Code	Mi - 1802B
RF Characteristic	ISM 902~928MHz (FCC) or 919~923 MHz (MAS)
RF Power Output	0~30dBm
Power Supply	Industrial Power Supply Input : 100-240 VAC, 0.5A, Output : +12V, 6.2A
Operating Temperature	-20°C to 80°C
Casing	IP65 Rating (White Color)
Dimension	440mm x 440mm x 50mm
Tag Read Rate	Software Programmable, Average Reading per 64Bits : <10ms
Weight	2kg
Reading Range	>6m
Interface	Rs-232C Serial Interface / RS 485, Wiegand 26/34



Rapita RFID Card E Series (Synchronized ID available)

- Mi-UE : Long range only
- Mi-EM : Long range + mifare (2 in 1)
- Mi-EL : Long range + proximity (2 in 1)

Rapita RFID Card U Series (Higher Security)

- Mi-UH : Long range only
- Mi-UM : Long range + mifare (2 in 1)
- Mi-UL : Long range + proximity (2 in 1)



RFID Long Rang Card

Operating Distance	Typically ~6-8m on air (Antenna Dependent)
Frequency	902-928 MHz
Memory	Long RangeSeries : UH (UHF 2048 bits) UE (UHF 240 bits EPC memory)
Write Endurance Cycle	100,000
Data Retention	Typical 10 years
Write Protection	Blockwise
Physical Characteristics	Card substrate : PET Length : 86mm Width : 54mm Multi read capability : Yes Water Resistance : Yes
Operating Temperature	-20°C to 80°C
Static Pressure	10 N/mm ²
RF Air Protocol	ISO/ IEC 18000

RFID Hybrid Card (UHF + LF/ Mifare)

UHF : Typically ~6-8m on air (Antenna Dependent) LF / Mifare : Proximity
i) 860-960 MHz ii) 125 kHz / 13.56MHz
Hybrid Card Series : UL - (UHF 2048 bits + Proximity 64 bits) UM - (UHF 2048 bits + Mifare 1024 bits) EL - (UHF 240 bits EPC memory + Proximity 64 bits) EM - (UHF 240 - bits EPC memory + Mifare 1024 bits)
100,000
Typical 10 years
Blockwise
Card substrate : PET Length : 86mm Width : 54mm Water Resistance : Yes
-20°C to 80°C
10 N/mm ²
UHF : ISO/ IEC 18000 LF : 125kHz/ Mifare : 13.56 MHz (ISO 14443A)

Interface Wire Color Code (You can find it at the back of the reader) :

Interface	Power		RS232(DB 9)			RS485		Trigger		Wiegand		
Wire Color	1	2	Pin 3	Pin 2	Pin 5	Brown	Yellow	Red	Black	Blue	White	Green
Definition	+12V	GND	TX	RX	GND	A+	B+	Trigger	GND	DATA 0	DATA 1	GND

Note:

1. The Red and Black wires are for triggering, please be cautious and do not connect them to DC or AC Power as it will cause short circuit.
2. Do not connect interface signal wire to Power Supply wire!

Technical Guidelines

1. The reading distance between reader and tag in ideal condition is 4-5 meters.
2. Reading distance is fully depending on surrounding environment. E.g: frequency interference, humidity, etc.
3. Reading distance will be reduced or not detected for vehicle with tinted windscreen that contains heavy metal elements due to the nature of RF Signal that metal elements will detune the permeability of radio signal.

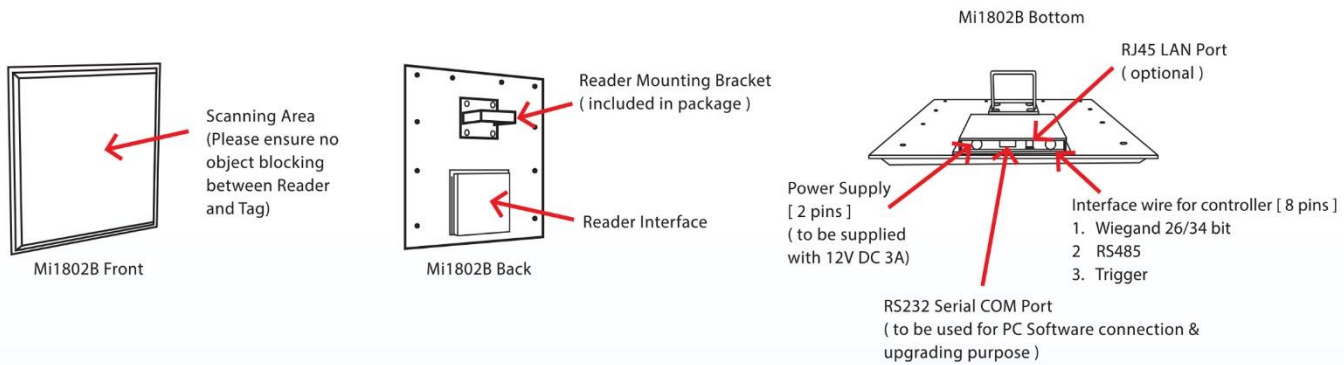
Recommendation of tint film specification as below:

- Visible Light Transmission: > 70%
- Ultra Violet Radiation Rejection : 99%
- Shading Coefficient: > 0.60
- Coolness factor: > 1.2

REMARK: Information above for reference only, actual result subject to other technical factors and environment interference.

JPJ Compliant: Rule 5 (1) and Rule 5 (3) of the 2000 Amendment of the Motor Vehicle Rules (Prohibition on Specific Types of Glass) set the translucence level of the windshield at no less than 70% and the rear and side windows at no less than 50%.

4. Distance between 2 readers should be at least 2 meters away to avoid interference.
5. Wiegand wiring are recommended to use Alarm cable or other higher grade cable.
6. Wiegand wiring are recommended to be less than 10 meters from reader to controller. Long wire will cause data signal loss.
7. Industrial power supply will be provided together with each reader. Sharing the power supply with other equipment are highly not recommended. At least 3 Ampere of power supply is needed for reader to operate normally.
8. Power supply wiring are recommended to be less than 10 meters from power supply to reader. DC Voltage will decrease if the power cable is too long. Reader will keep on beeping if the voltage supply is less than 9V.
9. RFID card should be away from metal or liquid object by at least 10cm.
10. Make sure no objects are blocking between Mi-1802B / Mi-1808B Long Range Reader and card when scanning is in progress.



Terms & Conditions / Disclaimer :

- * All information provided in this quick guide is based upon our best knowledge at the time this quick guide was published.
- * All information is believed to be accurate and given in all good intention.
- * User shall be responsible for the installation of the Mi-1802B / Mi-1808B;
- * User shall ensure that the installation must according to the instructions;
- * Manufacturer (MDT) shall not be held responsible for any direct and/or indirect loss, damage or at any costs suffered by user as a result thereof, including the unavailability of the warranty or guarantee.
- * Upon becoming the owner of Mi-1802B / Mi-1808B, user shall be fully responsible for the Mi-1802B / Mi-1808B and user shall not have any claim of whatever nature for the breakdown and/ or failure of the Mi-1802B / Mi-1808B in any manner whatsoever against manufacturer (MDT)