

DR200 User Manual

FOR GVXXX-Series Devices

ACCDR200UM0001

Version: 1.00



International Telematics Solutions Innovator

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0. Revision History

Version	Date	Author	Description of Change
1.00	2020-07-16	Tony Pei	Initial

1. General Description

This is a MIFARE/LEGIC/ELID READER MODULE for GVXXX-series modules and other modules. It has a 1-Wire port to communicate with the modules. It has two LEDs with different colors, red LED indicator for power supply and blue LED indicator for target reading successfully. The reader has a RFID Reader interface to targets. The reader supports 3 RF standards and transponders(MIFARE/LEGIC/ELID).


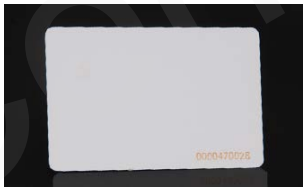
2. Product Specification

2.1 Appearance



Figure 1. Appearance of DR200

Table 1. Parts List

Name	Picture	Dimensions	Weight
DR200		95*60*12 mm	78grams (MAX)
RF Card		85.6*54*0.9 mm	

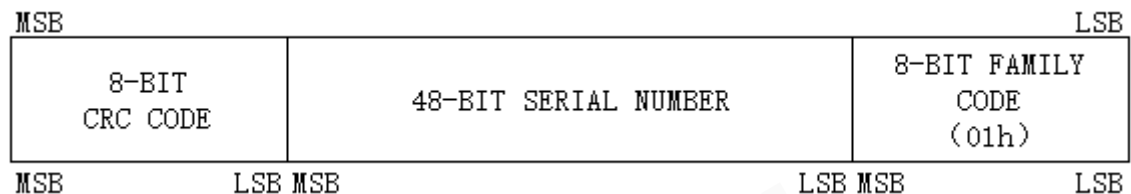
2.2 Electronic Condition

No	Type	Specifications	Unit	Condition
1	Power Voltage(Vin)	7-32	V(DC)	
2	Standby Current(Card detected)	8.2	mA	Vin=12VDC
3	Standby Current(Card not detected)	16.4	mA	Vin=12VDC

	detected)			
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2.3 ROM Specifications

Each DR200 contains a unique ROM code that is 64bits long. The first 8 bits are a 1-Wire family code. The next 48 bits are a unique serial number. The last 8 bits are a CRC of the first 56 bits. Please see the following figure for details. The 8bit family code of DR200 is 0x01.



2.4 Environment Condition

No	Type	Specifications	Unit
1	Operation Temperature	-20~+80	°C
2	Storage Temperature	-20~+85	°C

2.5 RFID Specifications

No	Type	Specifications
1	Frequency	13.56MHz 125KHz
2	Standards	Comply with ISO1443A standard and ELID Proximity

The ELID card data includes facility code and card number, the length of facility code is one byte, the length of card number is four bytes that range from 00000000 to FFFFFFFF. The insufficient will make up for 0. For example: If the facility code is 0x0B, the card number is 0007864739, so the serial number is "0B007801A300".

2.6 Support Product Model

No	Product Model	Remark
1	GV65N/GV300CAN/GV56/GV56RS/GV350M	1-Wire connection
2	GV300N/GV300W/GV75W/GV75	RS232 connection by AC100 Kit

3. Interface

3.1 Interface Definition

There are 3 wires input interface on DR200, which can be directly connected to the GVXXX Devices.

3.2 3-Pin Output Interface

DR200	PIN	Colour	Description	Connect to GV65N
3Pin 1wire Interface	VDD	Red	7-32V output	PIN1 VIN
	GND	Black	Ground	PIN2 GND
	1-Wire	White	1-Wire data	PIN6 DATA_1W

3.3 Device Status LED

DR200 has two LEDs with different colors, the red color is power LED, and the blue color LED will flash three times when sending data successfully.

3.4 Supported RF Card

Type	Manufacturer	Model	Operation Distance
Supported RFID card	MIFARE	MIFARE Mini,	30mm
		MIFARE Ultralight,	
		MIFARE- DESFire EV1,	
		MIFARE Plus,	
		MIFARE ONE(S50),	
		MIFARE ONE(S70),	
		MIFARE Pro(X)	
	LEGIC	LEGIC 4K capacity Card	20mm
		LEGIC 2K capacity Card	35mm
		LEGIC multi-protocol Card	13mm
		LEGIC Credit card	10mm
	ELID	ELID Proximity Card	30mm

4. Message Format and Operation

Please refer to GVXXX @Track Air Interface Protocol for details.

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