

USB Desktop Reader

Keyboard emulator for reading RFID data carriers

Application

With the USB Desktop Reader, entering the numbers of the contactless RFID data carriers used by your employees into the respective software application has never been so easy. Simply hold the data carrier within the reading field of the USB Desktop Reader and the number is automatically read and entered into the application.

A CardNET mode is also available, which allows the authorization data from CardNET data carriers to be read and displayed.



Functional description

The USB Desktop Reader connects to a Windows PC via USB. The installation of drivers is not required and the reader is automatically recognized as an HID (Human Interface Device = input device) to provide keyboard emulation. Communication with the PC is one-way, i.e., the read data carrier information is sent to the PC and processed in the same way as normal keystrokes.

The USB Desktop Reader supports data carriers that use different data structures. Before commencing operation, the reader must be configured to the desired data structure using a configuration data carrier. Subsequently, the input cursor must be positioned correctly in the software application to commence operation. When a data carrier is held within the reading field of the USB Desktop Reader, the data carrier number is automatically read and entered at the cursor position.

Operation of the USB Desktop Reader in CardNET mode is possible, which allows the authorization data of CardNET data carriers to be read and displayed on the PC at the cursor position.

Highlights

- Automatic installation as an "Input Device" (HID) for all major operating systems
- Driver installation not required
- Reads the numbers of RFID data carriers
- Data carrier numbers are automatically entered at the cursor position on the PC (keyboard emulation)
- Reads the authorization data of CardNET data carriers
- Supports more than 12 different data carrier structures
- Suitable for different types of data carriers (LEGIC, MIFARE, etc.)
- USB connection
- Separate power supply not required
- Compact desktop enclosure
- Two status LEDs (1 x red, 1 x green)
- Beeper

Order information

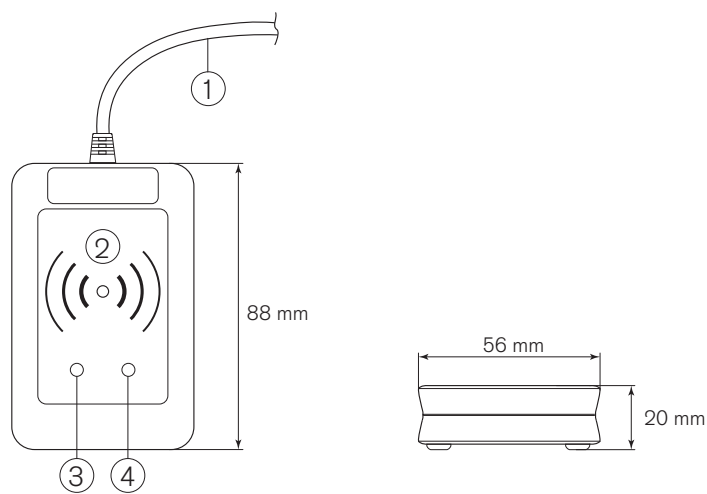
Description	Part No.
USB Desktop Reader	863231
RFID reader with USB interface (HID device). Configurable output format	
GAT DL 200 Master Key Set	282728
RFID data carriers for configuring the USB Desktop Reader	
GAT DL 300 Master Key Set	253022
RFID data carriers for configuring the USB Desktop Reader	

Technical data

Power supply:	Via USB interface
Nominal voltage:	DC 5 V
Current consumption:	Approx. 120 mA (RF field activated)
Reader type:	Multi-technology RFID reader
Reader frequency:	13.56 MHz
Reading range:	Up to 10 cm (depending on data carrier)
Data carriers:	- LEGIC prime/LEGIC advant - MIFARE - ISO 15693 - HID iClass
Connections:	- USB plug type A - Cable length: 2 m
Interface type:	- USB interface - Maximum speed: 12 MBit

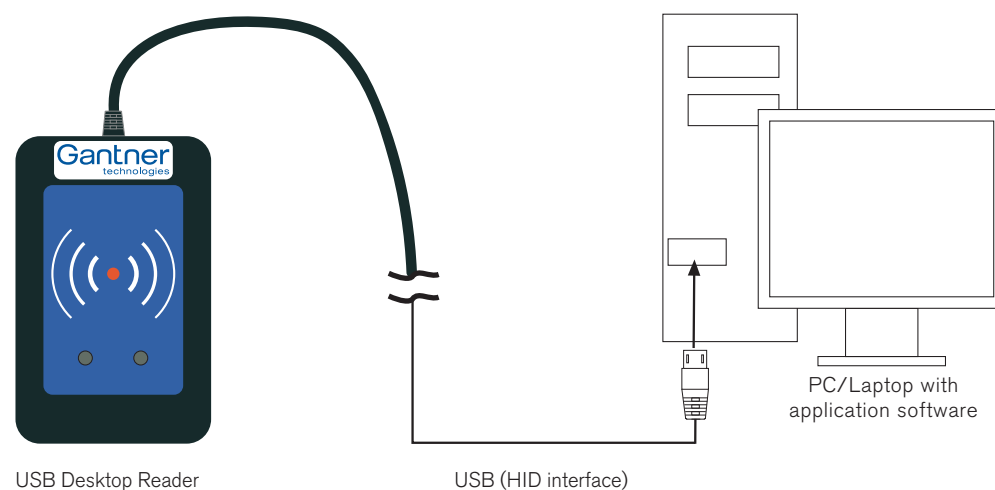
Communication interface:	HID Interface
Signalling elements	
- Visual:	1 x red LED, 1 x green LED
- Acoustic:	Beeper
Housing material:	Plastic ABS
Dimensions:	88 mm x 56 mm x 20 mm
Weight:	Approx. 130 g
Permitted ambient temperature:	-25 °C to +80 °C
Permitted storage temperature:	-45 °C to +85 °C
Protection type:	IP 40
Protection class:	III
Environment class based on VdS 2110:	I (conditions in indoor areas)

Dimensions



1. USB cable
2. Platform for data carriers
3. Red LED
4. Green LED

Electrical connections



Power supply

Power supplied via USB cable connected to the computer.

USB connection cable

- Length of the USB cable = 2 m.
- Type A plug for computer connection.

Computer installation when using the USB interface (HID)

The USB Desktop Reader is automatically recognised when connected to a computer as an HID (Human Interface Device = input device). HID drivers are included with all major operating systems.

Configuration

To begin operation, configure the USB Desktop Reader to the correct reading mode. See the table to the right for information regarding the modes.

To configure the reading mode

- Open a text program (Editor, Word, ...) on the connected PC.
- Hold the setup card or a programming data carrier from the GAT DL 200 / 300 Master Key Set within the reading field.
- The USB Desktop Reader emits a low-pitched beep and switches to the next mode. The mode is displayed on the computer screen.

To view the current configuration

- Open a text program (Editor, Word, ...) on the connected PC.
- Hold the delete data carrier from the GAT DL 200 / 300 Master Key Set within the reading field.
- The USB Desktop Reader emits a low-pitched beep. The current mode and firmware version are displayed on the computer screen.

Operation

- During normal operation, the green LED is continuously on.
- When a data carrier is read, a high-pitched beep is emitted, the green LED switches off and the red LED flashes so long as the data carrier is held within the reading field.

Mode	RFID Technology	Information
001 - GANTNER Access Standard	- LEGIC prime - LEGIC advant (G1 + G2) - MIFARE DESFire	- No FID check - Without CR - Coded card number
002 - GANTNER Access Standard	- LEGIC prime - LEGIC advant (G1 + G2) - MIFARE DESFire	- No FID check - With CR - Coded card number
003 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- MSB first - Without CR
004 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- MSB first - With CR
005 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- MSB first - Last 4 Bytes - Without CR
006 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- MSB first - Last 4 Bytes - With CR
007 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- LSB first - Without CR
008 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- LSB first - With CR
009 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- LSB first - Last 4 Bytes - Without CR
010 - Unique Number	- LEGIC - MIFARE - ISO15693 - HID iClass	- LSB first - Last 4 Bytes - With CR
011 - KABA Group Header	LEGIC prime	- No system code check - Without CR - Coded card number
012 - KABA Group Header	LEGIC prime	- No system code check - With CR - Coded card number
013 - GANTNER Offline Data	- LEGIC prime - LEGIC advant (G1 + G2)	- No FID check
014 - Automaten Seitz	LEGIC prime	- Card number - Without CR
015 - Automaten Seitz	LEGIC prime	- Card number - With CR
016 - KABA Group Header	LEGIC prime	- No system code check - Without CR - Leading zeroes
017 - KABA Group Header	LEGIC prime	- No system code check - With CR - Leading zeroes

Safety Instructions



- This device must be installed by qualified personnel only.
- The applicable safety and accident prevention regulations must be observed.
- Safety devices must not be removed.
- Please observe the technical data of the device specified on the datasheet.



- The device must be disconnected from the power supply prior to installation, assembling or dismantling.



GANTNER is committed to meeting or exceeding the requirements of the RoHS directive (2011/65/EU). The RoHS directive requires that manufacturers eliminate or minimize the use of lead, mercury, hexavalent chromium, cadmium, polybrominated biphenyls and polybrominated diphenyl ethers in electrical and electronic equipment sold in the EU after July 1, 2006.



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EG.



The WEEE symbol on GANTNER products and their packaging indicates that the corresponding material must not be disposed of with normal household waste. Instead, such marked waste equipment must be disposed of by a designated electronic waste recycling facility. Separating and recycling this waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information on recycling an item marked with the WEEE symbol, please contact your local city office or your household waste disposal operation.