

# MAGIC

## RFID Reader Industry Module

PART ID:  
**4001**

The OEM RFID reader module MAGIC 4001 was developed for reading read only and writing read write LF 125 kHz / 134 kHz transponders. It is used by electronics development companies to integrate LF RFID technology into their own OEM hardware in the simplest way with low wiring effort. Different firmware versions enable the processing of almost all standard LF 125 kHz and 134 kHz transponders.

### Main Specifications

|                       |                                       |
|-----------------------|---------------------------------------|
| Frequencies           | <b>LF</b> HF UHF                      |
| Material              | ABS with Epoxy                        |
| Operating Temperature | -20°C to 65°C                         |
| IP Class              | Not Specified                         |
| Compliance            | RoHs & Reach, CE                      |
| Key Features          | Small Size, Versatile, Cost-Effective |



### Full Specifications

|                  |                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product ID       | 4001                                                                                                                                                                                                                                                                                                                                                                                                      |
| Name             | MAGIC                                                                                                                                                                                                                                                                                                                                                                                                     |
| Material         | ABS with Epoxy                                                                                                                                                                                                                                                                                                                                                                                            |
| Shape            | Short Range                                                                                                                                                                                                                                                                                                                                                                                               |
| Long Description | The OEM RFID reader module MAGIC 4001 was developed for reading read only and writing read write LF 125 kHz / 134 kHz transponders. It is used by electronics development companies to integrate LF RFID technology into their own OEM hardware in the simplest way with low wiring effort. Different firmware versions enable the processing of almost all standard LF 125 kHz and 134 kHz transponders. |
| Key Features     | Small Size, Versatile, Cost-Effective                                                                                                                                                                                                                                                                                                                                                                     |
| Main Use         | Embedd                                                                                                                                                                                                                                                                                                                                                                                                    |
| Article Type     | Module                                                                                                                                                                                                                                                                                                                                                                                                    |
| Color            | Black                                                                                                                                                                                                                                                                                                                                                                                                     |
| Length [mm]      | 22.9                                                                                                                                                                                                                                                                                                                                                                                                      |
| Width [mm]       | 15.2                                                                                                                                                                                                                                                                                                                                                                                                      |
| Weight [g]       | 5                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| IP Class                   | Not Specified                                       |
| PCB Material               | FR4                                                 |
| Chemical Resistance        | Not Specified                                       |
| Flame Resistance           | Not Specified                                       |
| Mechanical Resistance      | Not Specified                                       |
| Compliance                 | RoHs & Reach, CE                                    |
| Read / Read Write          | Read&Write                                          |
| Typical Reading Range      | 50mm                                                |
| Supported Standards / Tags | EM410x, FDX-B, HDX, Hitag1/2/S, 5577, EM4305,EM4450 |
| Operating Temp °C (min)    | -20                                                 |
| Operating Temp °C (max)    | 65                                                  |
| Storage Temp °C (min)      | -20                                                 |
| Storage Temp °C (max)      | 65                                                  |
| Power Supply               | 5V DC                                               |
| Battery Type               | non                                                 |
| Battery Capacity           | non                                                 |
| Operating Frequency        | 125/134 kHz                                         |
| Interfaces Physical        | Serial TTL                                          |
| Interfaces Protocol        | ASCII                                               |
| Transfer rate [Baud]       | 9600                                                |
| Antenna ext.               | 1                                                   |
| GPIO                       | 3                                                   |
| Customized Programming     | I/O Ports                                           |
| Firmware Update User       | yes                                                 |
| Mounting Method            | Embedd                                              |

## VARIANTS

| ID             | Variant       |
|----------------|---------------|
| 4001-01-000-00 | LF Read/Write |