

# MAGIC

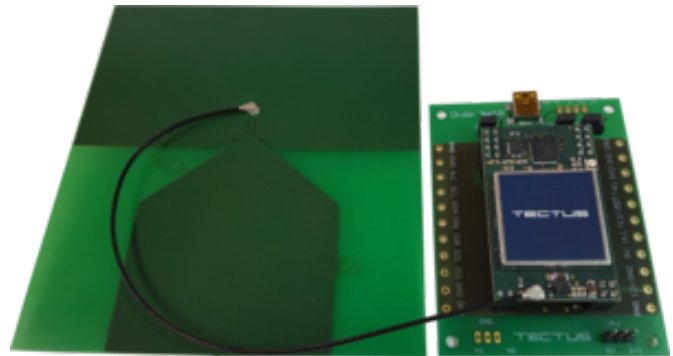
## RFID Reader Industry Module

**PART ID:**  
**4047**

TECTUS RFID Reader Modules make quick and cost-effective implementation of RFID technology possible in existing operational infrastructures, as well as in existing products and applications. Due to the low-level communication these modules can be used in all circuits. This evaluation board was developed for an easy start into engineering.

### Main Specifications

|                       |  |
|-----------------------|--|
| Frequencies           | <b>LF HF UHF</b>   |
| Material              | FR4  |
| Operating Temperature | -20°C to 65°C  |
| IP Class              | Not Specified  |
| Compliance            | RoHs & Reach, CE   |
| Key Features          | Command Interpreter, Simple ASCII Protocol, LF, HF, UHF and NFC available, Plug-and-Play |



### Full Specifications

|                  |  |
|------------------|--|
| Product ID       | 4047   |
| Name             | MAGIC  |
| Material         | FR4  |
| Shape            | Evaluation Kit   |
| Long Description | TECTUS RFID Reader Modules make quick and cost-effective implementation of RFID technology possible in existing operational infrastructures, as well as in existing products and applications. Due to the low-level communication these modules can be used in all circuits. This evaluation board was developed for an easy start into engineering. |
| Key Features     | Command Interpreter, Simple ASCII Protocol, LF, HF, UHF and NFC available, Plug-and-Play   |
| Comments         | incl.PCB antenna 126x11x1.2mm  |
| Main Use         | Development  |
| Article Type     | Module   |
| Color            | Green  |
| Length [mm]      | 80   |

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Where application information is given, it is only advisory and does not form part of the specification.

|                            |                      |
|----------------------------|----------------------|
| Width [mm]                 | 60                   |
| Thickness [mm]             | 20                   |
| Weight [g]                 | 26                   |
| Anticollision              | yes                  |
| 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      | short                |
| Supported Standards / Tags | ISO 18000-6A/B,C     |
| MTBF [h]                   | 500000               |
| Humidity %                 | 95                   |
| Operating Temp °C (min)    | -20                  |
| Operating Temp °C (max)    | 65                   |
| Storage Temp °C (min)      | -20                  |
| Storage Temp °C (max)      | 60                   |
| Power Supply               | USB                  |
| Battery Type               | None                 |
| Battery Capacity           | None                 |
| Operating Frequency        | UHF                  |
| Frequency Range            | 860~960MHz           |
| Interfaces Physical        | USB,I <sup>2</sup> C |
| Interfaces Protocol        | ASCII                |
| Antenna Ports              | 1                    |
| Antenna ext.               | 1                    |
| Connection                 | USB, Pad             |
| Status [Display,LED]       | 1 RGB LED            |
| Integrated RFID Reader     | UHF                  |
| Mounting Method            | Embed                |

## VARIANTS

| ID             | Variant           |
|----------------|-------------------|
| 4047-01-000-00 | EvaluationKit UHF |