

# MAGNUM

RFID Reader Industry  
Stationary

PART ID:  
**4023**

The MAGNUM 4023 reader is the next generation of RAIN RFID reader and the leading IoT device for all professional AutoID solutions. Its high-performance 33 dBm UHF RF unit, optional connectivity modules like PoE+ interface and the powerful scalable processing unit will change the way how identification works. Base on the latest RFID standards like EPC Gen2v2 / ISO 18000-63C TECTUS MAGNUM 4023 Series supporting all market leading Transponder Chip Features for security, authentication and encoding

## Main Specifications

|                       |                              |
|-----------------------|------------------------------|
| Frequencies           | LF HF <b>UHF</b>             |
| Material              | Aluminium                    |
| Operating Temperature | -20°C to 55°C                |
| IP Class              | IP67                         |
| Compliance            | RoHs & Reach, CE             |
| Key Features          | AutoID, PoE+, 33 dBm RF Unit |



## Full Specifications

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product ID       | 4023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Name             | MAGNUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Material         | Aluminium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Shape            | Long Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Long Description | The MAGNUM 4023 reader is the next generation of RAIN RFID reader and the leading IoT device for all professional AutoID solutions. Its high-performance 33 dBm UHF RF unit, optional connectivity modules like PoE+ interface and the powerful scalable processing unit will change the way how identification works. Base on the latest RFID standards like EPC Gen2v2 / ISO 18000-63C TECTUS MAGNUM 4023 Series supporting all market leading Transponder Chip Features for security, authentication and encoding |
| Key Features     | AutoID, PoE+, 33 dBm RF Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Article Type     | Stationary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Color            | Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Length [mm]      | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Width [mm]       | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                            |                  |
|----------------------------|------------------|
| Thickness [mm]             | 71               |
| Weight [g]                 | 4000             |
| Anticollision              | yes              |
| IP Class                   | IP67             |
| PCB Material               | FR4              |
| Chemical Resistance        | Not Specified    |
| Flame Resistance           | UL 94 V0         |
| Mechanical Resistance      | Not Specified    |
| Compliance                 | RoHs & Reach, CE |
| Read / Read Write          | Read&Write       |
| Typical Reading Range      | 10m              |
| Supported Standards / Tags | EPC Gen 2v2      |
| Operating Temp °C (min)    | -20              |
| Operating Temp °C (max)    | 55               |
| Storage Temp °C (min)      | -40              |
| Storage Temp °C (max)      | 85               |
| Power Supply               | 10-30V DC        |
| Operating Frequency        | UHF              |
| Frequency Range            | 865-868MHz       |
| Current Consumption        | 450mA            |
| Power over Ethernet [PoE]  | Yes              |
| Interfaces Physical        | Ethernet         |
| Interfaces Protocol        | TCP/IP           |
| Transfer rate [Baud]       | 10/100           |
| Antenna Ports              | 4                |
| Antenna ext.               | 4                |
| GPIO                       | 8                |
| Number of Input            | 4                |
| Number of Output           | 4                |
| Connection                 | M12 Connector    |
| Status [Display,LED]       | Yes              |
| Operating System           | Linux            |
| Development Tools          | API/Demo         |
| Accessories                | yes              |

## VARIANTS

| ID             | Variant                       |
|----------------|-------------------------------|
| 4023-01-000-00 | UHF Read/Write Longrange ETSI |
| 4023-02-000-00 | UHF Read/Write Longrange FCC  |