

Data sheet:

## RFID Server



Article no.: 95001

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### Intelligent Mid Range RFID-Reader/Writer with Ethernet, digital I/Os and integrated HF antenna for ISO15693 tags

#### Properties

##### Special product properties:

- **Automatic antenna tuning**
- **Intelligent pre-processing and collision control using W&T Tag-Control...**
  - ... for autonomous offline mode
  - ... for simplest access to transponder data
- **Web-Based-Management - Configuration via browser**
- **Integrated network connection 10/100BaseT**
- **4 programmable digital in-/outputs + 1x relay output**

##### Additional product features:

- **Supported tags**
  - ISO 15693-3
  - Tag-it HF (Texas Instruments)
  - other tags on request
- **typ. range 35cm**
- **4 digital inputs**
  - 0-24V, switching threshold 4V
  - current sinking 3-4mA
- **5 digital outputs**
  - 4 x Open-Collector 0-12V, 100mA
  - 1x changeover relay
- **Power supply:**
  - 12 V DC
- **Software interfaces:**
  - TCP socket server
  - WBM - Web-Based-Management
  - ODBC connector
  - OPC server

##### Background information:

The RFID-Server is a complete, compact system offering everything needed for detecting and processing 13.56 MHz tags within an Ethernet TCP/IP network. The integrated antenna enables easy, fast installation, with automatic antenna tuning for high resistance to changes in the magnetic surroundings. The entire configuration is accomplished by the integrated Web server, using a standard browser.

The network-side integration can be done using intelligent Smart Logic. This enables trouble-free processing of ISO15693 tags with no extensive knowledge or experience with the HF interface of the ISO standard. Multi-level collision detection, event-driven and time-stamped data sending as well as configurable pre-filtering are carried out autonomously by the RFID server. The Smart Logic protocol, which is compact and limited to the essential information, provides significant time savings in programming RFID applications. Open TCP connection, receive tag ID or tag data and save or carry out action, that's it!

Non-volatile stored filter rules also allow autonomous operation without a network-side communications partner. Approx. 3000 events are buffer stored and actions are carried out on the digital outputs depending on the filter rules. An example would be switching a digital output when a particular tag is detected within a defined period of time. As an alternative to Smart Logic, the binary map of the ISO15693-3 standard is available in Protocol Mode.

For simple linking to databases and standard visualization programs the ODBC connector is included, as well as an OPC Server.

#### Protocols:

- **HF protocols:**
  - ISO 15693
  - other protocols on request
- **Network protocols:**
  - TCP/IP:
    - Socket server
  - HTTP for Web-Based Management
  - Auxiliary protocols:
    - ARP, RARP, DHCP/BOOTP, PING,
    - inventory keeping, group management

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## Technical data

Operating frequency:	13.56MHz (HF range)
Transmitting power:	approx. 1W
Supported tags	ISO 15693-3 (others on request)
Supply voltage	DC: 12V +/-5%
Current draw	typ. 700mA, max. 950mA
Network:	10/100BaseT autosensing IPv6 on request
Galvanic isolation:	Network connection: min. 500 volts
Ambient temperature:	Storage: -40..+70°C Operation: 0..+50°C
Housing:	Plastic mini-housing, 200x280x41 mm
Weight:	approx. 950g
Scope of delivery:	1x RFID-Server 2x ISO 15693 tags 1x product CD with inventorying tool WuTility, reference manual German/English, programming examples VB/Delphi/C++



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