

ThingMagic RAINstream

Simplifying RFID Integration into Existing Systems

Features & Benefits:

- Simpler Integration of the RFID Reader into Existing Systems
- Ability to Customize Data Stream Outputs
- Option to Coordinate Reading with External Events
- Control over Read Duration

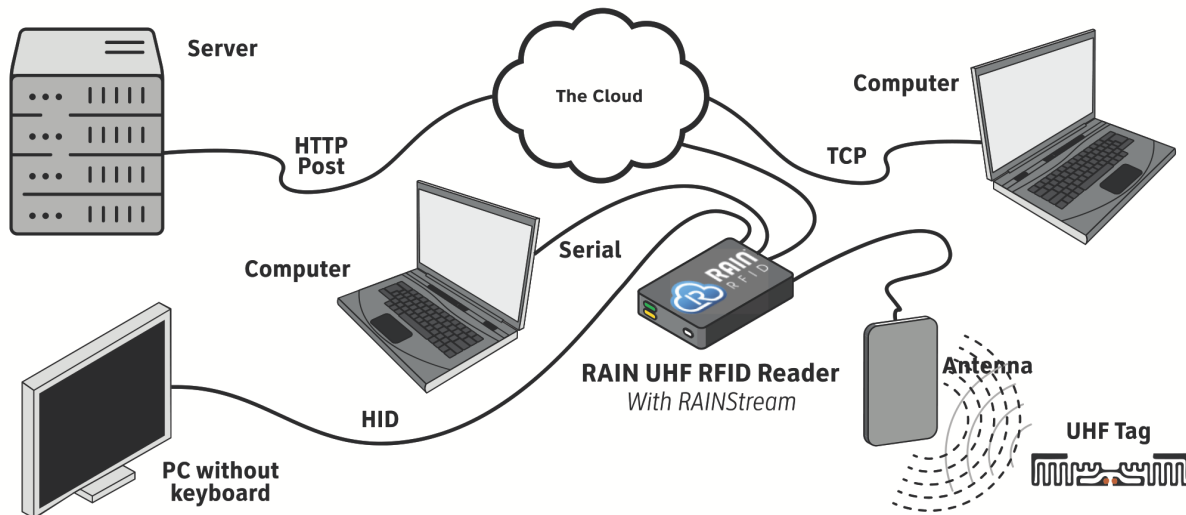
RAINstream is an optional on-reader application that streamlines data transfer and simplifies the integration of the ThingMagic RAIN UHF RFID reader into existing systems.

With RAINstream, tag data can be sent to a back-end processing system using standard connections and protocols. RAINstream eliminates the need for interpretation code at the host or server, thus saving time and cost in implementation and maintenance.

The data stream output can be customized to provide a range of tag data and status conditions, for maximum utility and efficiency.

Reading can be continuous, continuous only when a GPI line is active, or for a timed duration when a GPI line goes active.

Reader, network and RFID protocol settings are configured and saved through a web interface that is sourced by the reader. Once the RAINstream license is applied, it remains in effect for the entire life of the product, even as new features are added to the product through firmware upgrades.



RAINStream allows direct transfer of tag data to backend systems via several alternative protocols

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Supported Back-End Protocols

TCP	A TCP/IP connection to a client or server.
HTTP POST	Reader periodically posts to a web server that can accept text content.
Serial	Host opens a USB, terminal-type, serial connection to the reader.
HID Keyboard	The reader identifies as a keyboard to a host PC and the PC accepts the data as if it were being typed.

The screenshot shows the 'Output Channel' tab in the RAINstream configuration window. It features a sidebar with 'Keyboard Wedge' and 'RAINstream' options. The main area is divided into three sections: 'Serial' with checkboxes for 'Comport' and 'Baud Rate' (set to 115200); 'TCP/IP' with checkboxes for 'Port' (set to 14150) and 'Server URL' (set to http://example.com); and 'HTTP POST' with checkboxes for 'Update Interval(sec)' (set to 5) and 'Reader Name' (set to Sargis). Buttons for 'Previous' and 'Next' are at the bottom.

Output Channel Options

The screenshot shows the 'Trigger' tab in the RAINstream configuration window. It features a sidebar with 'Keyboard Wedge' and 'RAINstream' options. The main area has settings for 'Trigger' (radio buttons for 'Immediate' and 'GPI'), 'GPI Number' (a dropdown menu), 'LEVEL' (a dropdown menu), 'Read Type' (radio buttons for 'Continuous' and 'Duration'), and 'Duration(sec)' (a text input field set to 5000). Buttons for 'Previous' and 'Next' are at the bottom.

Trigger Options

The screenshot shows the 'CONFIG' tab in the RAINstream configuration window. It features a sidebar with 'Keyboard Wedge' and 'RAINstream' options. The main area has a 'Meta Data Fields' section with checkboxes for 'Read Count', 'RSSI', 'Antenna', 'Frequency', 'Phase', 'Protocol', and 'Gpio Status'. Below this is a 'Delimiter' section with radio buttons for 'Comma', 'Space', and 'Tab', and an 'Enter' checkbox. The 'Line Ending' section has radio buttons for 'CR', 'LF', and 'CR+LF'. There are also input fields for 'Prefix' (set to A) and 'Suffix' (set to Z). A 'Next' button is at the bottom.

Configuration Options

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting challenges. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

ThingMagic is JADAK's RFID line of products.



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