58UHF RFID Transceiver

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Agenda

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Track and Trace Solution - RFID

Key benefits of an RFID system to help solve track and trace opportunities

Data Storage	**Harsh Environments**	**Tags**	**Production Efficiency**
Tags can retain data that can be modified by the control system	Unlike barcodes, tags can handle rugged environments	Can be read inside cases, boxes, or other containers and are reusable	Detailed tracking available of who, what, when, and where

Long Range*

Short Range*

*Pictures are not to scale

58UHF RFID Transceiver

Ultra-High Frequency (UHF) Radio Frequency Identification (RFID) transceiver that offers a long range read/write option

Longer Range

Expanded read/write range of RFID transceiver up to 5 meters

IP66/67 Rated

Suitable for immersion and powerful jets of water

Tag Compatibility

Uses ISO 18000-63 (EOC global Gen2) compliance to align with global standard

Long Range

Easy Integration

Using its own AOP to make for easy set-up within Studio 5000®

Faster Read Rate

Depending on the model can read up to either 150 or 500 tags/sec

Visible indicators

Well-positioned product markings, and light-emitting diode (LED)

58UHF RFID Short and Long Range

58UHF Product Overview

Rounding out our portfolio to meet the needs of current and future customers.

- Four different catalog numbers
  - 58UHF-TR-100-SR15US
  - 58UHF-TR-100-SR15EU
  - 58UHF-TR-200-LR50US
  - 58UHF-TR-200-LR50EU
- Currently only offering this product in NA and EMEA regions due to differing frequency regulations in each country.
  - NA = US designation in the Cat #
    - Canada and USA
    - 902...928 MHz Frequency
  - EU = EMEA designation in the Cat #
    - 865...868 MHz Frequency

58UHF – Long and Short Model

Key similarities and differences

- Read Range Max → 5 m
- 200x200 mm
- Global Gen2 (ISO 18000-63) standard for tags
- EtherNet/IP connection
- IP66/67
- Built-in Circular and Linear Antenna
- Custom AOP with embedded configuration software for easy set-up
- Can read up to 500 tags/sec max
- Data Transfer → 8KB under 3.5 sec
- User Memory → up to 64KB

- Read Range Max → 1.5 m
- 100x100 mm
- Global Gen2 (ISO 18000-63) standard for tags
- EtherNet/IP connection
- IP66/67
- Built-in Circular and Linear Antenna
- Custom AOP with embedded configuration software for easy design
- Can read up to 150 tags/sec max
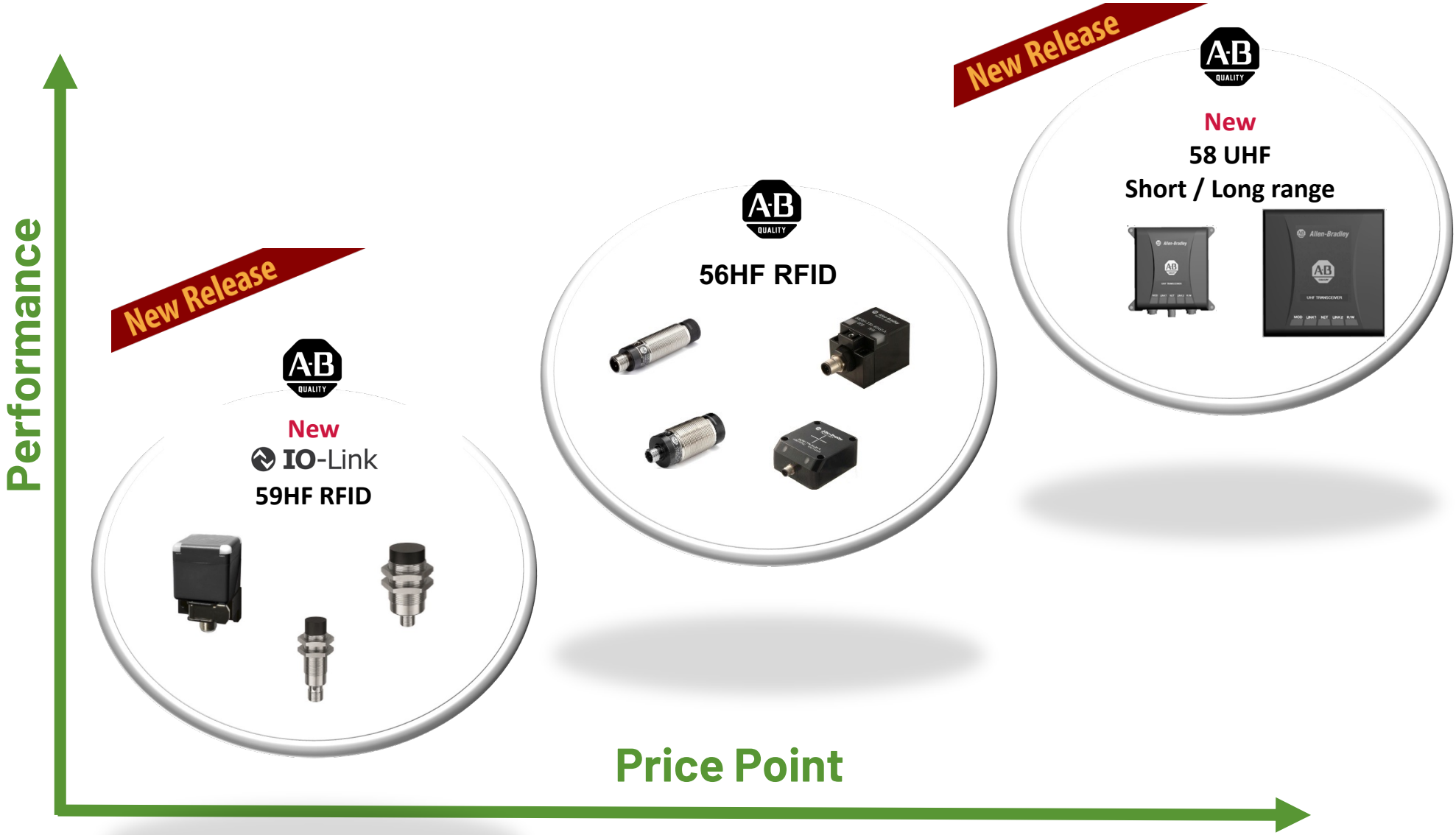- Data Transfer → 8KB under 3.5 sec
- User Memory → up to 64KB

Product Position

Product Positioning

Performance

Price Point

New Release

New
IO-Link
59HF RFID

56HF RFID

New Release

New
58 UHF
Short / Long range

Product Positioning – Key Differences

Portfolio consists of three different types of Radio Frequency Identification transceivers

58UHF Bulletin
- EtherNet/IP
- 1.5 … 5 m range
- 865…868 & 902…928 MHz

59RF Bulletin
- IO-Link
- 40…78 mm
- 13.56 MHz

56RF Bulletin
- EtherNet/IP
- 55…168 mm
- 13.56 MHz

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Custom AOP

Custom AOP

The 58UHF has an easy-to-use AOP through Studio5000

- Designed to integrate easily into existing architecture

- Has 10 different tabs to utilize for configuration of the unit

- Some AOP level configurations are as follows:
  - Tag Filtering
  - Change Antenna
    - Circular
    - Vertical
    - Horizontal
  - Calibrate Power
  - Etc...

Studio 5000®
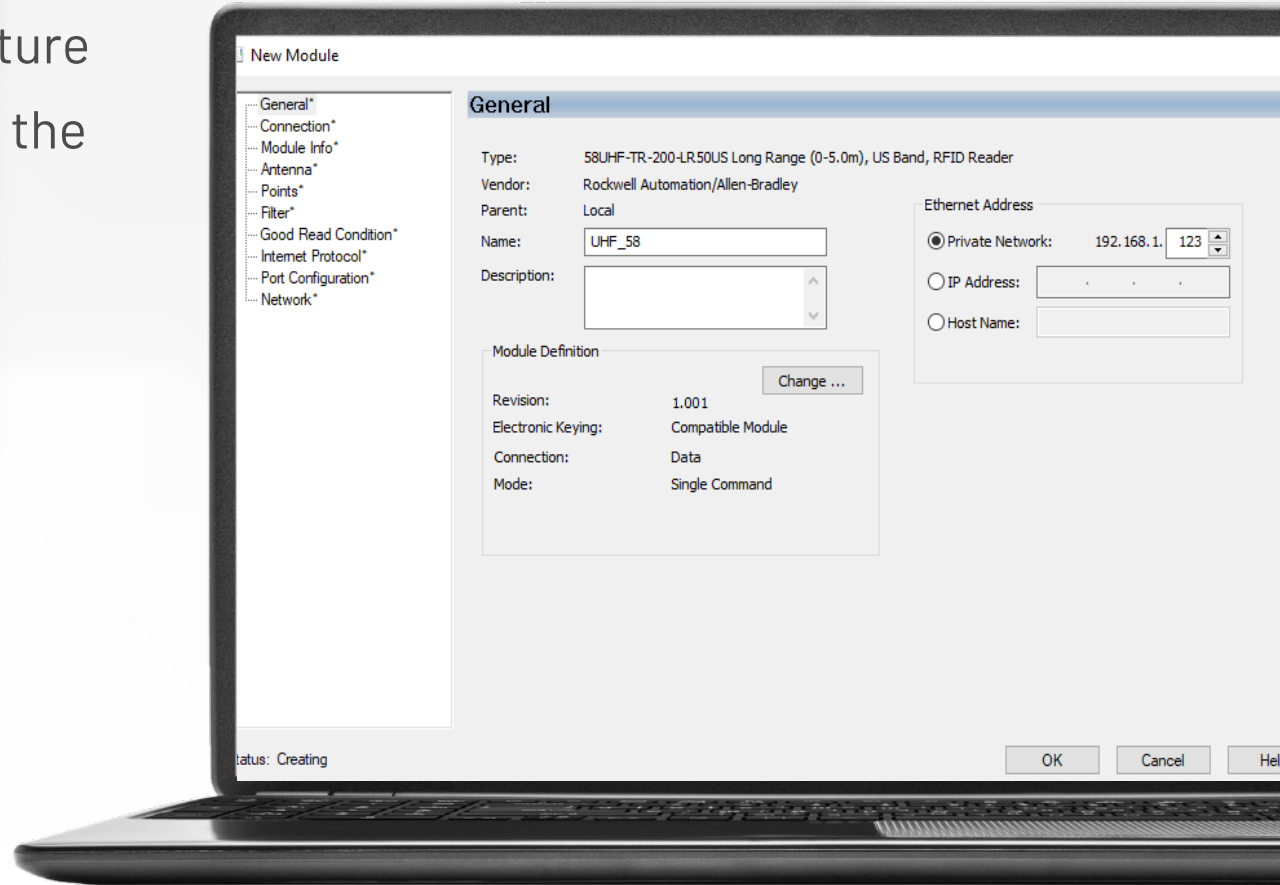
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Resources

Resources

Seismic

Literature

- More on [Literature Library](#)*

Webpages on rockwellautomation.com

- [RFID Systems](#)
- [Integrated Architecture® Builder (IAB)](#)
- [ProposalWorks™ tool](#)

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58UHF RFID

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Inclusive terminology

Rockwell Automation recognizes that some of the terms that are currently used in our industry and in this presentation are not in alignment with the movement toward inclusive language in technology.

We are proactively collaborating with industry peers to find alternatives to such terms and making changes to our products and content. Please excuse the use of such terms in our content while we implement these changes.