



# 59RF RFID System

Catalog Numbers 59RF-TR-M18, 59RF-TR-M30, 59RF-TR-4040

## What You Need

- 59RF transceiver
- IO-Link module (1732E-8IOLM12R requires version B or newer)
- Connection cables
- ControlLogix®
- Studio 5000® environment
- Sensor-specific IODD
- RFID tags



## Step 1: Configuration Parameter (IO-Link/SIO Mode)

Table 1 - Parameters

Index	Sub Hex	Name	Access	Data Type	Value	Default
<b>System</b>						
02 <sub>h</sub>	-	Standard Command	W	uint8	<ul style="list-style-type: none"> <li>• 5 = Parameter download store</li> <li>• 128 = Device reset</li> <li>• 130 = Restore factory settings</li> <li>• 160 = Locate device</li> </ul> (all status indicators blink for 30 seconds)	N/A
0C <sub>h</sub>	-	Device Access Lock	R/W	uint16	<ul style="list-style-type: none"> <li>• Parameter access</li> <li>• Data storage</li> <li>• Local parameterization</li> <li>• Local user interface locks</li> </ul>	0000h
0D <sub>h</sub>	-	Profile Characteristic	R	uint16	No profile for identification devices	0000h
0E <sub>h</sub>	-	PD Input Descriptor	R	array	<ul style="list-style-type: none"> <li>• Scan UID mode {{1, 3, 4}, {1, 2, 8}, {2, 6, 10}, {2, 8, 16}, {2, 64, 24}, {2, 64, 88}, {2, 64, 152}}</li> <li>• Scan R/W mode {{2, 3, 0}, {1, 4, 4}, {1, 2, 8}, {2, 5, 10}, {2, 8, 16}, {0, 224, 24}}</li> </ul>	-
0F <sub>h</sub>	-	PD Output Descriptor	R	array	<ul style="list-style-type: none"> <li>• Scan UID mode {{1, 1, 4}}</li> <li>• Scan R/W mode {{2, 4, 0}, {1, 1, 4}, {1, 1, 7}, {2, 3, 8}, {2, 8, 16}, {0, 224, 24}}</li> </ul>	-

Table 1 - Parameters (Continued)

Index	Sub Hex	Name	Access	Data Type	Value	Default
<b>Identification</b>						
10 <sub>h</sub>	-	Vendor Name	R	char []	Rockwell Automation	-
11 <sub>h</sub>	-	Vendor Text	R	char []	<a href="https://www.rockwellautomation.com/en-us/products/hardware/allen-bradley.html">https://www.rockwellautomation.com/en-us/products/hardware/allen-bradley.html</a>	-
12 <sub>h</sub>	-	Product Name	R	char []	59RF-TR-M18, 59RF-TR-M30, 59RF-TR-4040	-
13 <sub>h</sub>	-	Product ID	R	char []	59RF-TR-M18-A, 59RF-TR-M30-A, 59RF-TR-4040-A	-
14 <sub>h</sub>	-	Product Text	R	char []	IO-Link RFID reader	-
15 <sub>h</sub>	-	Serial Number	R	char []	Particular to the device.	-
17 <sub>h</sub>	-	Firmware Revision	R	char []	2.2.7	-
18 <sub>h</sub>	-	Application-specific Tag	R/W	char []	<user string, 32 bytes (variable length)>	<vendor specific>
<b>Reader Parameter SIO</b>						
41 <sub>h</sub>	01 <sub>h</sub>	C/Q1 PIN SIO Operating Mode	R/W	uint8	<ul style="list-style-type: none"> <li>• 00<sub>h</sub>: Transponder presence</li> <li>• 01<sub>h</sub>: Compare data</li> <li>• 02<sub>h</sub>: Alarm 1</li> <li>• 03<sub>h</sub>: Alarm 2</li> <li>• 04<sub>h</sub>: No SIO</li> </ul>	00 <sub>h</sub>
	02 <sub>h</sub>	SIO Start Address C/Q1	R/W	uint8	Transponder memory block address where to make the compare data operation.	00 <sub>h</sub>
	03 <sub>h</sub>	C/Q1 SIO Data to compare	R/W	uint32	Reference data value stored in RWM memory to be compared to transponder data.	00 <sub>h</sub> , 00 <sub>h</sub> , 00 <sub>h</sub> , 00 <sub>h</sub>
	04 <sub>h</sub>	C/Q1 PIN SIO Polarity	R/W	uint8	<ul style="list-style-type: none"> <li>• 00<sub>h</sub>: Output is closed if condition = true</li> <li>• 01<sub>h</sub>: Output is open if condition = true</li> </ul>	00 <sub>h</sub>
	05 <sub>h</sub>	Data Hold Time Output (C/Q1 & Q2)	R/W	uint8	<ul style="list-style-type: none"> <li>• 00<sub>h</sub>: No hold time</li> <li>• 01<sub>h</sub>: Hold time 100 ms</li> <li>• 02<sub>h</sub>: Hold time 200 ms</li> <li>• 03<sub>h</sub>: Hold time 500 ms</li> <li>• 04<sub>h</sub>: Hold time 1000 ms</li> <li>• 05<sub>h</sub>: Hold time 2000 ms</li> </ul>	00 <sub>h</sub>
	06 <sub>h</sub>	Q2 PIN SIO Operating Mode	R/W	uint8	<ul style="list-style-type: none"> <li>• 00<sub>h</sub>: Transponder presence</li> <li>• 01<sub>h</sub>: Compare data</li> <li>• 02<sub>h</sub>: Alarm 1</li> <li>• 03<sub>h</sub>: Alarm 2</li> <li>• 04<sub>h</sub>: No SIO</li> </ul>	00 <sub>h</sub>
	07 <sub>h</sub>	SIO Start Address Q2	R/W	uint8	Transponder memory block address where to make the compare data operation.	00 <sub>h</sub>
	08 <sub>h</sub>	Q2 SIO Data to compare	R/W	uint32	Reference data value stored in RWM memory to be compared to transponder data.	00 <sub>h</sub> , 00 <sub>h</sub> , 00 <sub>h</sub> , 00 <sub>h</sub>
	09 <sub>h</sub>	Q2 PIN SIO Polarity	R/W	uint8	<ul style="list-style-type: none"> <li>• 00<sub>h</sub>: Output is closed if condition = true</li> <li>• 01<sub>h</sub>: Output is open if condition = true</li> </ul>	00 <sub>h</sub>
<b>RF Configuration</b>						
42 <sub>h</sub>	03 <sub>h</sub>	RSSI Threshold	R/W	uint8	<ul style="list-style-type: none"> <li>• 0 = 0</li> <li>• 1 = 1</li> <li>• 2 = 2</li> <li>• 3 = 3</li> <li>• 4 = 4</li> <li>• 5 = 5</li> <li>• 6 = 6</li> <li>• 7 = 7</li> </ul>	01 <sub>h</sub>

Table 1 - Parameters (Continued)

Index	Sub Hex	Name	Access	Data Type	Value	Default
<b>Tag Info</b>						
43 <sub>h</sub>	01 <sub>h</sub>	UID	R	uint64	Data available only if the transponder is in the RWM detection range when tag info fields are read.	-
	02 <sub>h</sub>	Transponder DSFID	R	uint8		-
	03 <sub>h</sub>	Transponder AFI	R	uint8		-
	04 <sub>h</sub>	Number of Memory Blocks	R	uint8		-
	05 <sub>h</sub>	Memory Block Size	R	uint8		-
	06 <sub>h</sub>	RSSI	R	uint8		-
	07 <sub>h</sub>	IC Manufacturer Code	R	uint8		-
	08 <sub>h</sub>	IC Reference	R	uint8		-
<b>UID List</b>						
44 <sub>h</sub>	01 <sub>h</sub>	Tag history 1	R	uint64	The last transponder UID seen by RWM.	-
	02 <sub>h</sub>	Time stamp Tag history 1	R	uint64	System time records when tag 1 enters in the RWM range.	-
	03 <sub>h</sub>	Tag history 2	R	uint64	-	-
	04 <sub>h</sub>	Time stamp Tag history 2	R	uint64	System time records when tag 2 enters in the RWM range.	-
	05 <sub>h</sub>	Tag history 3	R	uint64	-	-
	06 <sub>h</sub>	Time stamp Tag history 3	R	uint64	System time records when tag 3 enters in the RWM range.	-
	07 <sub>h</sub>	Tag history 4	R	uint64	-	-
	08 <sub>h</sub>	Time stamp Tag history 4	R	uint64	System time records when tag 4 enters in the RWM range.	-
	09 <sub>h</sub>	Tag history 5	R	uint64	The first transponder UID seen by RWM (on a shift register of 5 UIDs).	-
	0A <sub>h</sub>	Time stamp Tag history 5	R	uint64	System time records when tag 5 enters in the RWM range.	-
<b>Alarm</b>						
47 <sub>h</sub>	01 <sub>h</sub>	Measurement Alarm 1 Configuration	R/W	uint8	<ul style="list-style-type: none"> <li>• 0 = Always off</li> <li>• 1 = Active</li> </ul>	-
	02 <sub>h</sub>	Measurement Alarm 1 Threshold	R/W	uint32	ALR1 goes true if: <ul style="list-style-type: none"> <li>• <math>RSSI \leq</math> Alarm 1 threshold</li> <li>• Tag in range time <math>\leq</math> Alarm 1 threshold</li> </ul>	-
	03 <sub>h</sub>	Measurement Alarm 1 Source	R/W	uint8	<ul style="list-style-type: none"> <li>• 2 = RSSI</li> <li>• 3 = Tag in range time [ms]</li> </ul>	-
	04 <sub>h</sub>	Measurement Alarm 2 Configuration	R/W	uint8	<ul style="list-style-type: none"> <li>• 0 = Always off</li> <li>• 1 = Active</li> </ul>	00 <sub>h</sub>
	05 <sub>h</sub>	Measurement Alarm 2 Threshold	R/W	uint32	ALR2 goes true if: <ul style="list-style-type: none"> <li>• <math>RSSI \leq</math> Alarm 2 threshold</li> <li>• Tag in range time <math>\leq</math> Alarm 2 threshold</li> </ul>	00 <sub>h</sub> , 00 <sub>h</sub> , 00 <sub>h</sub> , 00 <sub>h</sub>
	06 <sub>h</sub>	Measurement Alarm 2 Source	R/W	uint8	<ul style="list-style-type: none"> <li>• 2 = RSSI</li> <li>• 3 = Tag in range time [ms]</li> </ul>	00 <sub>h</sub>
<b>Device Description</b>						
48 <sub>h</sub>	01 <sub>h</sub>	Function Tag	R/W	char [ ]	<user string, 32 bytes (variable length)>	<vendor specific>
	02 <sub>h</sub>	Location Tag	R/W	char [ ]	<user string, 32 bytes (variable length)>	<vendor specific>

Table 1 - Parameters (Continued)

Index	Sub Hex	Name	Access	Data Type	Value	Default
<b>Device Characteristic</b>						
49 <sub>h</sub>	01 <sub>h</sub>	RFID Compatibility	R	char [ ]	13.56 MHz, ISO15693	-
	02 <sub>h</sub>	Read/write distance max	R	char [ ]	20 mm (0.79 in.) with Ø30 mm (1.18 in.) SLIX tag	-
	03 <sub>h</sub>	Supply voltage range (Ub)	R	char [ ]	11...32V DC	-
	04 <sub>h</sub>	Max output current	R	char [ ]	≤ 200 mA	-
	05 <sub>h</sub>	Ambient temperature range TA	R	char [ ]	-25...+80 °C (-13...+176 °F)	-
	06 <sub>h</sub>	Storage temperature range TS	R	char [ ]	-25...+80 °C (-13...+176 °F)	-
	07 <sub>h</sub>	Enclosure rating	R	char [ ]	IP67	-
<b>Transponder Time Monitoring</b>						
4A <sub>h</sub>	01 <sub>h</sub>	System Time - Transponder In	R	uint64	Records the system time when the transponder enters the RWM detection range [ms].	-
	02 <sub>h</sub>	System Time - Transponder Out	R	uint64	Records the system time when the transponder enters the RWM detection range [ms].	-
	03 <sub>h</sub>	Transponder In Range Time	R	uint64	In range = Transponder out - transponder in	-
<b>Security</b>						
58 <sub>h</sub>	01 <sub>h</sub>	Security Mode	R/W	uint8	<ul style="list-style-type: none"> <li>• 0 = Security mode inactive</li> <li>• 1 = SLI-S or SLIX-2 Security mode active (performs a login with the specified password before each read or write operation)</li> <li>• 12 = EM4233SLIC Security mode active (performs a login with the specified password before each read or write operation)</li> </ul>	00 <sub>h</sub>
	02 <sub>h</sub>	Password	W	uint32	The password is never readable to avoid application counterfeiting.	8 x 00 <sub>h</sub>
<b>Diagnostic</b>						
59 <sub>h</sub>	01 <sub>h</sub>	System Time	R	uint64	The system time resets at each RWM power down, or in case the standard command 128 = Device Reset is sent to the RWM. System time [ms]	-
	02 <sub>h</sub>	Successful Login counter	R	uint32	Counts the number of successful transponder logins since the last RWM startup/reset.	-
	03 <sub>h</sub>	Error Login counter	R	uint32	Counts the number of unsuccessful transponder logins since the last RWM startup/reset.	-
	04 <sub>h</sub>	Error counter	R	uint32	Counts the number of RMW errors since the last RWM startup/reset.	-
	05 <sub>h</sub>	Power-on cycles	R	uint32	Counts the number of RMW power-on cycles. You cannot reset this counter. The device must power on > 550 ms to see the power-on cycle counter increment.	-



## Step 2: Process Data Representation

**Table 2 - Process Data Input**

Byte	7	6	5	4	3	2	1	0
0	RDY	ERR	TAG	ANT	RFU	CMDCOPY		
1	ERROR CODE					ALR2	ALR1	
2	RSSI							
3	ADDRESS							
4...31	DATA 0...27 / UID7...0, STTI7...0, TIRT7...0							
Error Code	Error Name	Description						
1	CommandNotSupported	The transponder replies error code values to the RWM interrogation. Dependence of ISO15693 command set supported by the different transponder IC of the market. IOS15693 standard defines these error code values.						
2	FormatError							
3	OptionNotSupported							
5	CommandProblem							
6	CommTagError							
15	TagError							
16	NoMemoryBlock							
18	BlockProtected							
27	AppLOGError	RWM password (index 0x58) does not match the transponder password.						
30	TAGCommError	Indicates a transponder communication error (more than 1 transponder is detected or the transponder reply is not understood).						
255	AppGeneralError	General error						
Name	Value	Description						
RDY	0 → 1 1 → 0	Command executes and new data is available. If you select Auto-Read, Auto-Write, or UID, the bit toggles automatically as long as a transponder is inside the RWM range.						
	0	No new data available yet						
	1							
ERR	0	Command executes and no error						
	1	Command executes but error						
TAG	0	No tag present in front of the RWM						
	1	Tag present in front of the RWM						
ANT	0	RF field off						
	1	RF field on						
RSSI	RSSI signal level from the transponder							
Error Code								
ALR2	0	Alarm 2 off						
	1	Alarm 2 on						
ALR1	0	Alarm 1 off						
	1	Alarm 1 on						
ADDRESS	First transponder memory block address where the R/W command executes.							
DATA 0...27	Read data LSB							
UID7...0	Transponder unique ID number							
STTI7...0	System time transponder in. Data records when a transponder enters the RWM range.							
TIRT7...0	Transponder in range time							

**Table 3 - Process Data Output**

Byte	7	6	5	4	3	2	1	0
0	START	RFU	N_ANT	RFU	CMD			
1	RFU				NB BLOCK			
2	RFU							
3	ADDRESS							
4...31	DATA 0...27							
Name	Value	Description						
START	0 → 1 1 → 0	Start the selected RFID operation when bit toggles. If Auto-Read, Auto-Write or UID command is selected, the bit is not used. The RFID command are sent automatically as long as a transponder is inside the RWM range.						
	0	No new data available yet.						
	1							
N_ANT	0	Switch on RF field						
	1	Switch off RF field						
CMD	0	No command						
	1	Auto-Read						
	2	Auto-Write						
	3	Read						
	4	Write						
	5	UID and tag timings						
NB BLOCK	Number of the transponder memory block to R/W.							
ADDRESS	First transponder memory block address where the R/W command executes.							
Data 0	Data to be written LSB							
Data 27	Data to be written MSB							



## Step 3: Order to Read/Write

The process data input is visible in the IOLmaster:I. This input is the data that is read out of the RFID module.

We can see there the Antenna-State, the Tag presence, And the RSSI signal.

IOmaster:I	[-]	[-]	AB1732_BIOI04076%
IOmaster:I.Fault	248881_0001_0000_0000_0000_0...	Binary	DINT
IOmaster:I.Ch0Status	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch0TagEvent	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch1TagEvent	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch2TagEvent	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch3TagEvent	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch4TagEvent	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch5TagEvent	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch6TagEvent	[-]	[-]	AB1732_BIOI_0Struc...
IOmaster:I.Ch0Data_26_27	0	Decimal	DINT
IOmaster:I.Ch0Data_24_25	0	Decimal	DINT
IOmaster:I.Ch0Data_22_23	0	Decimal	DINT
IOmaster:I.Ch0Data_20_21	0	Decimal	DINT
IOmaster:I.Ch0Data_18_19	0	Decimal	DINT
IOmaster:I.Ch0Data_16_17	0	Decimal	DINT
IOmaster:I.Ch0Data_14_15	0	Decimal	DINT
IOmaster:I.Ch0Data_12_13	0	Decimal	DINT
IOmaster:I.Ch0Data_10_11	0	Decimal	DINT
IOmaster:I.Ch0Data_8_9	0	Decimal	DINT
IOmaster:I.Ch0Data_6_7	0	Decimal	DINT
IOmaster:I.Ch0Data_4_5	0	Decimal	DINT
IOmaster:I.Ch0Data_2_3	0	Decimal	DINT
IOmaster:I.Ch0Data_0_1	0	Decimal	DINT
IOmaster:I.Ch0ADD	0	Decimal	DINT
IOmaster:I.Ch0NB_BLOCK	0	Decimal	DINT
IOmaster:I.Ch0CMD	0	Decimal	DINT
IOmaster:I.Ch0Antenna_state	1	Decimal	BOOL
IOmaster:I.Ch0Tag	1	Decimal	BOOL
IOmaster:I.Ch0RSSI	0	Decimal	DINT
IOmaster:I.Ch0LRI1	0	Decimal	BOOL
IOmaster:I.Ch0LRI2	0	Decimal	BOOL
IOmaster:I.Ch0Error_code	0	Decimal	DINT
IOmaster:I.Ch0MIDSWY	0	Decimal	DINT
IOmaster:I.Ch0Antenna_state	1	Decimal	BOOL
IOmaster:I.Ch0Tag	1	Decimal	BOOL
IOmaster:I.Ch0Error	0	Decimal	BOOL
IOmaster:I.Ch0Ready_Flag	0	Decimal	BOOL

The process data output is visible in the IOLmaster:O. This output is where you prepare the values and commands to write into the module.

IOmaster:O	[-]	[-]	AB1732_BIOI04076%
IOmaster:O.Ch0Data_26_27	0	Decimal	DINT
IOmaster:O.Ch0Data_24_25	0	Decimal	DINT
IOmaster:O.Ch0Data_22_23	0	Decimal	DINT
IOmaster:O.Ch0Data_20_21	0	Decimal	DINT
IOmaster:O.Ch0Data_18_19	0	Decimal	DINT
IOmaster:O.Ch0Data_16_17	0	Decimal	DINT
IOmaster:O.Ch0Data_14_15	0	Decimal	DINT
IOmaster:O.Ch0Data_12_13	0	Decimal	DINT
IOmaster:O.Ch0Data_10_11	0	Decimal	DINT
IOmaster:O.Ch0Data_8_9	0	Decimal	DINT
IOmaster:O.Ch0Data_6_7	0	Decimal	DINT
IOmaster:O.Ch0Data_4_5	0	Decimal	DINT
IOmaster:O.Ch0Data_2_3	0	Decimal	DINT
IOmaster:O.Ch0Data_0_1	0	Decimal	DINT
IOmaster:O.Ch0ADD	0	Decimal	DINT
IOmaster:O.Ch0NB_BLOCK	0	Decimal	SINT
IOmaster:O.Ch0CMD	0	Decimal	SINT
IOmaster:O.Ch0Antenna_state	0	Decimal	BOOL
IOmaster:O.Ch0START	0	Decimal	BOOL

### Read Out Tag

To read out a tag, there are two functions available.

The module only reads out one tag once. Before any new command, xxxO.Ch0START must be 0 and then to 1 again. The start tag must be set to 0 before you change the command.

### Auto Read (1)

- Set xxx:O.Ch0CMD = 1  
Module reads out the tag (if available) cyclically and displays in the process data input.
- Set xxx:O.Ch0NB\_BLOCK = 1  
Defines how many blocks must be read (set as 1 for this example).
- Set xxx:O.Ch0ADD = 0  
Defines on which address to start (set as 0 for this example).

IOmaster:O.Ch0NB_BLOCK	1	Decimal	SINT
IOmaster:O.Ch0CMD	1	Decimal	SINT
IOmaster:O.Ch0Antenna_state	0	Decimal	BOOL
IOmaster:O.Ch0START	0	Decimal	BOOL

### Read (3)

When the command is set to 3, the module reads the tag once it is available and the Start signal is given.

- Set xxx:O.Ch0CMD = 3

IOmaster:O.Ch0CMD	3	Decimal	SINT
IOmaster:O.Ch0Antenna_state	0	Decimal	BOOL
IOmaster:O.Ch0START	1	Decimal	BOOL

### Write a Tag

To write a tag present in-front of the module, there are two commands available.

Follow the same command sequence steps as [Read Out Tag](#).

### Auto Write (2)

With this command, the module reads out cyclically the tag in front of the module when the start signal is given once.

If the CMD is in auto write, the process data input does not return the data of the tag. To return the data, set the Read or Read Auto command (after you set the start signal to 0).

## Write (4)

With this command, the device only writes the data once. The values only write after the start signal is given and a tag is present.

To write to the next tag requires a new start signal and values for ADD and NB\_BLOCK.

IOMaster.O.ChkData_4_3	0	Decimal	DINT
IOMaster.O.ChkData_2_3	60	Decimal	DINT
IOMaster.O.ChkData_0_1	60	Decimal	DINT
IOMaster.O.ChkADD	0	Decimal	DINT
IOMaster.O.ChkNB_BLOCK	1	Decimal	SINT
IOMaster.O.ChkCMD	4	Decimal	SINT
IOMaster.O.ChkAntenna_state	0	Decimal	BOOL
IOMaster.O.ChkSTART	1	Decimal	BOOL

**IMPORTANT** We recommend you define the number of blocks and the start address for read and write operations. This action restricts the module from writing on memory addresses that are not available in the tag.

# Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	<a href="http://rok.auto/support">rok.auto/support</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a>
<b>Technical Documentation Center</b>	Quickly access and download technical specifications, installation instructions, and user manuals.	<a href="http://rok.auto/techdocs">rok.auto/techdocs</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="http://rok.auto/literature">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	<a href="http://rok.auto/pcdc">rok.auto/pcdc</a>

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## Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

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