

YR9010 Communication interface specification

Table cell color meaning	LightGray		Supported commands
	dark grey		nonsupported commands
	reseda		use different commands

Serial number	Command code	name	Command describe	instructions
Reader operation command				
1	0x70	cmd_reset	Reset reader	supported
2	0x71	cmd_set_uart_baud rate	Set the serial communication baud rate	supported
3	0x72	cmd_get_firmware_version	Read reader firmware version	supported
4	0x73	cmd_set_reader_address	Set reader address	supported
5	0x74	cmd_set_work_antenna	Set reader working antenna	Not supported
6	0x75	cmd_get_work_antenna	Query the working antenna of current antenna	Not supported
7	0x76	cmd_set_output_power	Set RF power output of reader	The range of RF power output (0-26 dBm)
8	0x77	cmd_get_output_power	Query the current output power of reader	The range of RF power output(0-26 dBm)
9	0x78	cmd_set_frequency_region	set operating frequency range of reader	Only support user-defined frequency
10	0x79	cmd_get_frequency_region	Query operating frequency range of reader	Only support user-defined frequency
11	0x7A	cmd_set_beeper_mode	Set the buzzer mode	supported
12	0x7B	cmd_get_reader_temperature	Query operating temperature of the the current equipment	Not supported
13	0x60	cmd_read_gpio_value	Read GPIO electrical level	supported
14	0x61	cmd_write_gpio_value	Set GPIO electrical level	supported
15	0x62	cmd_set_ant_connection_detector	Set the connection detector state of antenna	Not supported
16	0x63	cmd_get_ant_connection_detector	Read the connection detector state of antenna	Not supported
17	0x66	cmd_set_temporary_output_power	set the temporary RF output power of reader	Not supported
18	0x67	cmd_set_reader_identifier	Set reader identifier number	supported
19	0x68	cmd_get_reader_identifier	Read reader identifier number	supported
20	0x69	cmd_set_rf_link_profile	Set the communication rate of RF link	Not supported
21	0x6A	cmd_get_rf_link_profile	Read the communication rate of RF link	Not supported
22	0x7E	cmd_get_rf_port_return_loss	Measuring return loss of the	Not supported

			antenna port	
18000-6C commands				
23	0x80	cmd_inventory	Inventory tag	Cache tag number 200tags@96bit EPC
24	0x81	cmd_read	Read tag	Only operating a tag at the same time
25	0x82	cmd_write	Write tag	Only operating a tag at the same time
26	0x83	cmd_lock	Lock tag	Only operating a tag at the same time
27	0x84	cmd_kill	Kill tag	Only operating a tag at the same time
28	0x85	cmd_set_access_epc_match	Match ACCESS operate's EPC number	Not supported
29	0x86	cmd_get_access_epc_match	Query match 的 EPC status	Not supported
30	0x89	cmd_real_time_inventory	Inventory tag(Upload the data of tag in real time)	supported
31	0x8A	cmd_fast_switch_ant_inventory	fast polling multiple antenna to inventory tags	Not supported
32	0x8B	cmd_customized_session_target_inventory	User-defined session and target inventory	supported
33	0x8C	cmd_set_impinj_fast_tid	Set Monza tag fast read TID (set not be saved to the internal FLASH)	Not supported
34	0x8D	cmd_set_and_save_impinj_fast_tid	Set Monza tag fast read TID (set be saved to the internal FLASH)	Not supported
35	0x8E	cmd_get_impinj_fast_tid	query present high-speed TID set	Not supported
ISO18000-6B commands				
36	0xB0	cmd_iso18000_6b_inventory	Inventory 18000-6Btag	Not supported
37	0xB1	cmd_iso18000_6b_read	Reading 18000-6B tag	Not supported
38	0xB2	cmd_iso18000_6b_write	Write 18000-6B tag	Not supported
39	0xB3	cmd_iso18000_6b_lock	Lock 18000-6B tag	Not supported
40	0xB4	cmd_iso18000_6b_query_lock	query 18000-6B tag	Not supported
Cache operating command				
41	0x90	cmd_get_inventory_buffer	Extract the data of tag and delete cache	supported
42	0x91	cmd_get_and_reset_inventory_buffer	Extract the data of tag and Keep the cache backup	supported
43	0x92	cmd_get_inventory_buffer_tag_count	query had read number of tag in cache	supported
44	0x93	cmd_reset_inventory_buffer	Empty data cache of tag	supported

Note: The specific command format, please refer to the Communication protocol manual .