EN

Touch Switches API

User Manual

Ver.: 1.0

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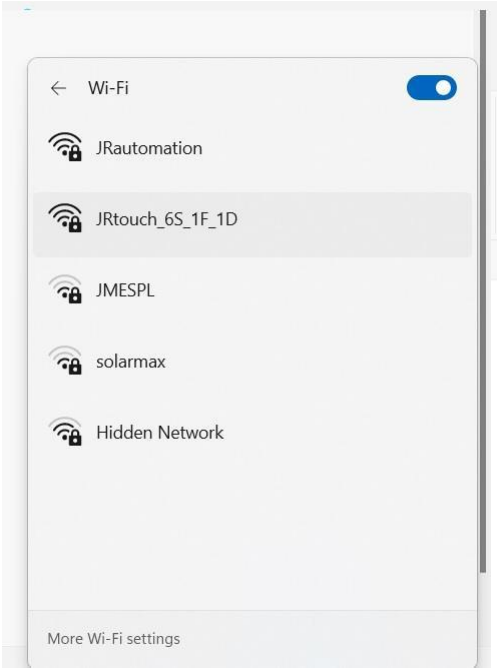
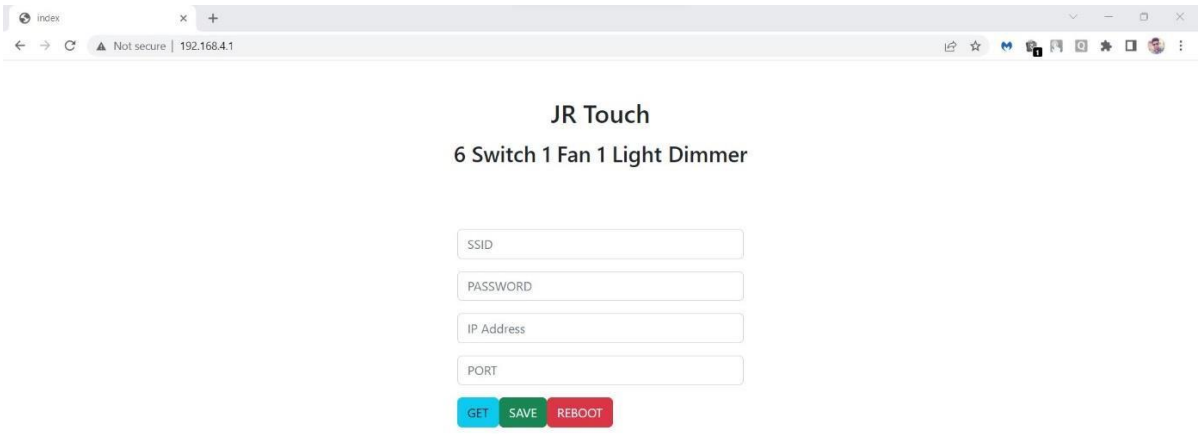
#1: Connect with Wi-Fi and IP

1. Touch and Hold Any Button for 5 sec.
2. Once All Led start blinking, fasty 3 times tap on any button to put touch panel in Access Point mode.
3. Connect with WiFi name JRtouch_6S_1F_1D with password: 12345678
4. Open Webpage at IP : 192.168.4.1
5. Press get button to get predefined data.
6. Change SSID, Password, IP and Port according to your requirements.
7. After Save Press reboot button, now device will connect with given WIFI and defined IP and port.





#2: Device Info Over mDNS

All Touch Panel run mDNS Service named: jrtouch._tcp.local Once you query mDNS service its response like below. MDNS Service Query Response:

```
;; Header: QR AA RCODE=NoError

;; Question
;; (empty)

;; Answer
_jrtoch._tcp.local IN PTR JR-TCPServer._jrtoch._tcp.local
JR-TCPServer._jrtoch._tcp.local 120 CLASS32769 SRV 0 0 4096 JR-BD7518.local
JR-TCPServer._jrtoch._tcp.local CLASS32769 TXT MacAdd=60-55-F9-BD-75-18 DevID=JR-BD7518
DevType=6S_1F_1D

;; Authority
;; (empty)

;; Additional
JR-BD7518.local 120 CLASS32769 A 192.168.2.137
```

SRV Record Contains Port and Hostname information.

Default port for TCP Server is 4096

TXT Record Contains Mac Address, Device ID, and Device Type information.

Additional Record Contains IP Address Information.

For Above Example Port is 4096 and IP is 192.168.2.137

Decoding Device Type.

Sr No.	DevType	Switches	Fan	Dimmer	Curtain	Device	Module Size
1	1S	1	0	0	0	1 Switch	2M
2	2S	2	0	0	0	2 Switch	2M
3	4S	4	0	0	0	4 Switch	2M
4	8S	8	0	0	0	8 Switch	4M
5	10S	10	0	0	0	10 Switch	6&8M
6	4S_1F	4	1	0	0	4 Switch 1 Fan	4M
7	4S_2F	4	2	0	0	4 Switch 2 Fan	6&8M
8	8S_1F	8	1	0	0	8 Switch 1 Fan	6&8M
9	2D	0	0	2	0	2 Dimmer	2M
10	4D	0	0	4	0	4 Dimmer	4M
11	4S_2D	4	0	2	0	4 Switch 2 Dimmer	4M
12	4S_2D_1F	4	1	2	0	4 Switch 2 Dimmer 1 Fan	6&8M
13	6S_1F_1D	6	1	1	0	6 Switch 1 Fan 1 Dimmer	6&8M
14	1CC	0	0	0	1	1 Curtain	2M
15	2CC	0	0	0	2	2 Curtain	2M
16	2S_1CC	2	0	0	1	2 Switch 1 Curtain	2M
17	6S_1F_1CC	6	1	0	1	6 Switch 1 FAN 1 Curtain	6&8M
18	8S_1CC	8	0	0	1	8 Switch 1 Curtain	6&8M
19	4S_1F_1D_1CC	4	1	1	1	4 Switch 1 Fan 1 Curtain	6&8M
20	2S_1F_1CC	2	1	0	1	2 Switch 1 Fan 1 Curtain	4M
21	6S_1CC	6	0	0	1	6 Switch 1 Curtain	4M
22	4S_2C	4	0	0	2	4 Switch 2 Curtain	4M
23	6S_2CC	6	0	0	2	6 Switch 2 Curtain	6&8M
24	4S_1F_2CC	4	1	0	2	6 Switch 1 FAN 2 Curtain	6&8M

25	2S_1F_1D_2CC	2	1	1	2	4 Switch 1 Fan 2 Curtain	6&8M
26	2S_2D_1F_1CC	2	1	2	1	4 Switch 2 Dimmer 1 Fan 1 Curtain	6&8M
27	2S_2F_1C	2	2	0	1	4 Switch 2 Fan 1 Curtain	6&8M
28	2F_2CC	0	2	0	2	2 Fan 2 Curtain	6&8M

Table 1.1

#3: Communication Protocol

All JR Touch Panel connect to TCP Server on PORT which defined while configuration process. Panels uses Json Strings for communication.

Note: Json string must be in Nonformatted(minify) version and add “/r/n” at the end of string to separate multiple string arrive at panel.

Ex: {"get":[{"dp_id":128}]}\r\n

To get any information in panel it allows client to send “get” command. Get command does not modify any information in panel so it reports only who ask for it.

To set any parameter in panel it allows client to send “set” command. Set command modify panel like changes status of switch so any changes in panel will notify to all connected client via “report command”

Set Command Structure: -

```
{"set":[{"dp_id":105,"identifier":"switch_1","name":"Down Light","value":false}]}
```

dp_id and identifier: Unique Value for any parameter in any panel. If client send wrong or mismatch value for it the panel will ignore it.

Name: It is a changeable field to identify any parameter. Once Client send different value, panel will store that name in memory. In report it will be notify to client.

Value: This field allow client to modify/control the panel.

DP ID (int)	Identifier (String)	Name (String)	Value	Data Type	Notes
100	6S_1F_1D	6S_1F_1D	JR-BD7518	String	Value is Device ID and it cannot be changed Only Name field is Changeable
101	IP_Address	IP_Address	“192.168.2.115”	String	
102	RSSI	RSSI	60		Signal Strength 0-100
103	HeartRate	HeartRate	69448154	unsigned long	Time since Device boot in ms
104	Capability	Capability	[100,101,102,103, 104,105,106,107, 108,109,110,115, 117,125,126,127, 128,129,130,133, 134,135,136,137, 138,143,144,145, 146]	Array of int	Supported parameters for current Device. Not all Device support all parameters.
105	mac_address	mac_address	“60-55-F9-BD-75-18”	string	
106	hardware_version	hardware_version	“1.0.0”	String	
107	Software_version	Software_version	“1.0.0”	string	
108	switch_1	switch_1	false	bool	
109	switch_2	switch_2	false	bool	
110	switch_3	switch_3	false	bool	
111	switch_4	switch_4	false	bool	
112	switch_5	switch_5	false	bool	
113	switch_6	switch_6	false	bool	
114	switch_7	switch_7	false	bool	
115	switch_8	switch_8	false	bool	
116	switch_9	switch_9	false	bool	
117	switch_10	switch_10	false	bool	
118	fan_1	Fan 1	0	uint8_t	Range: 0-100 step:25
119	fan_2	Fan 2	0	uint8_t	Range: 0-100 step:25
120	dimmer_1	Dimmer 1	0	uint8_t	Range: 0-100 step:1
121	dimmer_2	Dimmer 2	0	uint8_t	Range: 0-100 step:1
122	dimmer_3	Dimmer 3	0	uint8_t	Range: 0-100 step:1
123	dimmer_4	Dimmer 4	0	uint8_t	Range: 0-100 step:1
124	cc1_level	cc1 level	0	uint8_t	Range: 0-100 step:1
125	cc1_stop	cc1_stop	false	uint8_t	Send true to stop
126	cc2_level	cc2 level	0	uint8_t	Range: 0-100 step:1
127	cc2_stop	cc2_stop	false	uint8_t	Send true to stop
128	all_on_off	all_on_off	0	uint8_t	Send 1 for all on send 0 for all off
129	on_color	on_color	RED	String	RED, GREEN, BLUE, YELLOW, CYAN, MAGENTA, ORRANGE, SPRING_GREEN, VIOLET, CHARTREUSE, AZURE, ROSE, WHITE, BLACK

130	off_color	off_color	CYAN	String	RED, GREEN, BLUE, YELLOW, CYAN, MAGENTA, ORRANGE, SPRING_GREEN, VIOLET, CHARTREUSE, AZURE, ROSE, WHITE, BLACK
131	brightness_mode	Brightness mode	1	uint8_t	1 for auto mode 0 for manual mode
132	brightness_ctrl	brightness_ctrl	100	uint8_t	Range: 0-100 step:1
133	child_lock	child_lock	0	uint8_t	1 for child lock ENABLE 0 for child lock DISABLE
134	cc1_time	cc1_time	40	uint8_t	1sec to 255 second time for curtain
135	cc2_time	cc2_time	40	uint8_t	1sec to 255 second time for curtain
136	momentary_1	momentary_1	0	uint8_t	Send 1 to Enable Switch as momentary switch
137	momentary_2	momentary_2	0	uint8_t	Send 1 to Enable Switch as momentary switch
138	momentary_3	momentary_3	0	uint8_t	Send 1 to Enable Switch as momentary switch
139	momentary_4	momentary_4	0	uint8_t	Send 1 to Enable Switch as momentary switch
140	momentary_5	momentary_5	0	uint8_t	Send 1 to Enable Switch as momentary switch
141	momentary_6	momentary_6	0	uint8_t	Send 1 to Enable Switch as momentary switch
142	momentary_7	momentary_7	0	uint8_t	Send 1 to Enable Switch as momentary switch
143	momentary_8	momentary_8	0	uint8_t	Send 1 to Enable Switch as momentary switch
144	momentary_9	momentary_9	0	uint8_t	Send 1 to Enable Switch as momentary switch
145	momentary_10	momentary_10	0	uint8_t	Send 1 to Enable Switch as momentary switch
146	master_button_cnfg	master_button_cnfg	0	uint8_t	0 means no master button. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 [Values according to no. of switches]

147	pwr_flr_state_sv	pwr_flr_state_sv	1	uint8_t	0 -> Disable Power failure state save 1-> Enable Power Failure State Save
148	dimm1_min_val	dimm1_min_val	0	uint8_t	Dimmer 1 Minimum Value
149	dimm1_max_val	dimm1_max_val	100	uint8_t	Dimer 1 Maximum Value
150	dimm2_min_val	dimm2_min_val	0	uint8_t	Dimmer 2 Minimum Value
151	dimm2_max_val	dimm2_max_val	100	uint8_t	Dimer 2 Maximum Value
152	dimm3_min_val	dimm3_min_val	0	uint8_t	Dimmer 3 Minimum Value
153	dimm3_max_val	dimm3_max_val	100	uint8_t	Dimer 3 Maximum Value
154	dimm4_min_val	dimm4_min_val	0	uint8_t	Dimmer 4 Minimum Value
155	dimm4_max_val	dimm4_max_val	100	uint8_t	Dimer 4 Maximum Value

Detailed Information: -

DP ID	100	Device Information
Identifier	According Types of panels see table 1.1	Example: 6S_1F_1D
Name	Default Name of Panel	Example: 6S_1F_1D User can change panel Name by this field and it will be stored in EEPROM until Factory Reset
Value	Device ID	Unique field for all touch panel JR-Last 6 digit of MAC Address Example: JR-BD7518

get command: -


```
{"get":[{"dp_id":100}]}\r\n
```


response: -


```
{"report":[{"dp_id":100,"identifier":"6S_1F_1D","Name":"6S_1F_1D","value":"JR- BD7518",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


set command: -


```
{"set":[{"dp_id":100,"identifier":"6S_1F_1D","Name":"Master bedroom","value":"JR-
BD7518"}]}\r\n
```


response: -


```
{"report":[{"dp_id":100,"identifier":"6S_1F_1D","Name":"Master bedroom",
"value":"JR-BD7518"","mac":"60:55:F9:C9:9B:40",
"ip":"192.168.2.127"}]}\r\n
```

DP ID	101	IP Address
Identifier	IP_Address	IP_Addres
Name	IP Address	User can change IP Address Name by this field and it will be stored in EEPROM until Factory Reset
Value	“XXX.XXX.XXX.XXX”	IP Address Assign by router It can be fixed or static by router Can not be changed by set command Example: “192.168.2.115”

get command: -

```
{"get":[{"dp_id":101}]}\r\n
```

response: -

```
{"report":[{"dp_id":101,"identifier":"IP_Addres","Name":"IP_Addres",
"value":"192.168.2.117"", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set command: -

```
{"set":[{"dp_id":101,"identifier":"IP_Addres","Name":"Device IP",
"value":"192.168.2.120"}]}\r\n
```

response: -

```
{"report":[{"dp_id":101,"identifier":"IP_Addres","Name":"Device IP",
"value":"192.168.2.117"",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	102	Signal Strength
Identifier	RSSI	RSSI
Name	RSSI	User can change RSSi Name by this field and it will be stored in EEPROM until Factory Reset
Value	“XXX”	Value shows Wi-Fi Signal Strength in Percentage. Range : 0-100

get command: -

```
{"get":[{"dp_id":102}]}\r\n
```

response: -

```
{"report":[{"dp_id":102,"identifier":"RSSI","Name":"RSSI",
"value":60",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set command: -

```
{"set":[{"dp_id":102,"identifier":"RSSI","Name":"Signal Strength",
"value":100}]}\r\n
```

response: -

```
{"report":[{"dp_id":102,"identifier":"RSSI","Name":"Signal Strength",
"value":60", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	103	Device ON Time
Identifier	HeartRate	HeartRate
Name	HeartRate	User can change HeartRate Name by this field and it will be stored in EEPROM until Factory Reset
Value	“XXXXXXXXXX”	Time in Milli-Seconds Since Device Start It will start from 0 in case Power ON Reset or Watchdog Reset. Unit : Unsigned Long

get command: -

```
{"get":[{"dp_id":103}]}\r\n
```

response: -

```
{"report":[{"dp_id":103,"identifier":"HeartRate","Name":"HeartRate", "value":69448154",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set command: -

```
{"set":[{"dp_id":103,"identifier":"HeartRate","Name":"HeartRate Count",
"value":69448154}]}\r\n
```

response: -

```
{"report":[{"dp_id":103,"identifier":"HeartRate","Name":"HeartRate Count",
"value":69448154", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	104	Device Capability
Identifier	Capability	Capability
Name	Capability	User can change Capability Name by this field and it will be stored in EEPROM until Factory Reset
Value	[Array of DP IDs]	Not all Devices Support all parameters. So, Capability Value field provide array of supported DP IDs.

get command: -

```
{"get":[{"dp_id":104}]}\r\n
```

response: -

```
{"report":[{"dp_id":104,"identifier":"Capability","Name":"Capability","value":[100,101
,102,103,104,105,106,107,108,109,110,115,117,125,126,127,128,129,130,133,134,135,
136,137,138,143,144,145,146], "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set command: -

```
{"set":[{"dp_id":104,"identifier":"Capability","Name":"Device Capability",
"value":[100,101,102,103,104,105,106,107,108,109,110,115,117,125,126,127,128,
129,130,133,134,135,136,137,138,143,144,145,146]}]}\r\n
```

response: -

```
{"report":[{"dp_id":104,"identifier":"Capability","Name":"Device Capability",
"value":[100,101,102,103,104,105,106,107,108,109,110,115,117,125,126,127,128,
129,130,133,134,135,136,137,138,143,144,145,146]",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	105	Device MAC Address
Identifier	mac_address	mac_address
Name	mac_address	User can change mac_address Name by this field and it will be stored in EEPROM until Factory Reset
Value	“XX-XX-XX-XX-XX-XX”	Fixed MAC Address of Device. It can not be changed and Factory pre-programmed. Example: “60-55-F9-BD-75-18”

get command: -

```
{"get":[{"dp_id":105}]}\r\n
```

response: -

```
{"report":[{"dp_id":105,"identifier":"mac_address","Name":"mac_address",
"value":":"60-55-F9-BD-75-18"",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set command: -

```
{"set":[{"dp_id":105,"identifier":"mac_address","Name":"MAC ID",
"value":"60-55-F9-BD-75-18"}]}\r\n
```

response: -

```
{"report":[{"dp_id":105,"identifier":"mac_address","Name":"MAC ID",
"value":"60-55-F9-BD-75-18"",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	106	Device Hardware Version
Identifier	hardware_version	Hardware Version
Name	hardware_version	User can change hardware_version Name by this field and it will be stored in EEPROM until Factory Reset
Value	“X.X.X”	Hardware Version of Device. Pre-programmed and can not able to change by user. Example: “1.0.0”

get command: -

```
{"get":[{"dp_id":106}]}\r\n
```

response: -

```
{"report":[{"dp_id":106,"identifier":"hardware_version","Name":"hardware_version",
"value":"1.0.0"", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":106,"identifier":"hardware_version","Name":"HW_Ver",
"value":"1.0.5"}]}\r\n
```

set: -

```
{"set":[{"dp_id":106,"identifier":"hardware_version","Name":"HW_Ver", "value":"1.0.0"",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	107	Device Software Version
Identifier	software_version	Software Version
Name	software_version	User can change software_version Name by this field and it will be stored in EEPROM until Factory Reset
Value	“X.X.X”	Software Version of Device. Pre-programmed and cannot able to change by user. Example: “1.0.0”

get command: -

```
{"get":[{"dp_id":107}]}\r\n
```

response: -

```
{"report":[{"dp_id":107,"identifier":"software_version","Name":"software_version",
"value":"1.0.0"", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":107,"identifier":"software_version","Name":"SW_Ver",
"value":"1.0.5"}]}\r\n
```

set: -

```
{"set":[{"dp_id":107,"identifier":"software_version","Name":"SW_Ver", "value":"1.0.0"",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	108	Switch 1 Control
Identifier	switch_1	switch_1
Name	switch_1	User can change Switch Name by this field and it will be stored in EEPROM until Factory Reset Example: “Bedroom Switch”
Value	true/false (bool)	true – Turn ON Switch false – Turn OFF Switch

get command: -


```
{"get":[{"dp_id":108}]}\r\n
```


response: -


```
{"report":[{"dp_id":108,"identifier":"switch_1","Name":"switch_1",
"value":false", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


set: -


```
{"set":[{"dp_id":108,"identifier":"switch_1","Name":"Bedroom Bedside Light",
"value":true}]}\r\n
```


report: -


```
{"report":[{"dp_id":108,"identifier":"switch_1","Name":"Bedroom Bedside Light",
"value":true", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


DP ID 108 to 117 has same behaviour as DP ID 108.

DP ID	118	Fan 1 Control
Identifier	fan_1	switch_1
Name	fan_1	User can change Fan Name by this field and it will be stored in EEPROM until Factory Reset Example: “Drawing Room Fan”
Value	XXX	Range 0-100 Step Size: 25 Value: 0 -> Fan OFF Value: 25 -> Fan Speed 1 Value: 50 -> Fan Speed 2 Value: 75 -> Fan Speed 3 Value: 100 -> Fan Speed 4 (Full Speed)

get command: -


```
{"get":[{"dp_id":118}]}\r\n
```


response: -


```
{"report":[{"dp_id":118,"identifier":"fan_1","Name":"fan_1","value":25",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


set: -


```
{"set":[{"dp_id":118,"identifier":"fan_1","Name":"Drawing Room Fan",
"value":75}]}\r\n
```


report: -


```
{"report":[{"dp_id":118,"identifier":"fan_1","Name":" Drawing Room Fan",
"value":75", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


Note: DP ID 119 has same behaviour as DP ID 118.

DP ID	120	Dimmer 1 Control
Identifier	dimmer_1	dimmer_1
Name	dimmer_1	User can change Dimmer Name by this field and it will be stored in EEPROM until Factory Reset Example: “Master Bedroom Dimmer”
Value	XXX	Range 0-100 Step Size: 1 Value: 0 -> OFF Value: 1-100 -> Dimming

get command: -


```
{"get":[{"dp_id":120}]}\r\n
```


response: -


```
{"report":[{"dp_id":120,"identifier":"dimmer_1","Name":"dimmer_1","value":80",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


set: -


```
{"set":[{"dp_id":120,"identifier":"dimmer_1","Name":"Master Bedroom Dimmer",
"value":20}]}\r\n
```


report: -


```
{"report":[{"dp_id":120,"identifier":"dimmer_1","Name":"Master Bedroom Dimmer",
"value":20", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


Note: DP IDs 121 to 123 have same behaviour as DP ID 120.

DP ID	124	Curtain 1 level Control Parameter
Identifier	cc1_level	cc1_level
Name	cc1_level	User can change Curtain Name by this field and it will be stored in EEPROM until Factory Reset Example: “Master Bedroom Dimmer”
Value	XXX	Range 0-100 Step Size: 1 0 ➔ full close 100 ➔ full open

get command: -

```
{"get":[{"dp_id":124}]}\r\n
```

response: -

```
{"report":[{"dp_id":124,"identifier":"curtain_1","Name":"curtain_1","value":0",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":124,"identifier":"curtain_1","Name":"Drawing room Curtain",
"value":20}]}\r\n
```

response: -

```
{"report":[{"dp_id":124,"identifier":"curtain_1","Name":"Drawing room Curtain",
"value":20", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

Note: DP IDs 126 has same behaviour as DP ID 124.

DP ID	125	Curtain 1 stop
Identifier	cc1_stop	cc1_stop
Name	cc1_stop	User can change Curtain stop Name by this field and it will be stored in EEPROM until Factory Reset Example: “Curtain 1 stop”
Value	true	Send true value to stop curtain When you stop the curtain it also send curtain 1 position

get command: -


```
{"get":[{"dp_id":125}]}\r\n
```


response: -


```
{"report":[{"dp_id":125,"identifier":"cc1_stop","Name":"cc1_stop","value":false}]}\r\n
```


set : -


```
{"set":[{"dp_id":125,"identifier":"cc1_stop","Name":" cc1_stop","value":true",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


response: -


```
{"report":[{"dp_id":125,"identifier":"cc1_stop","Name":"cc1_stop","value":true}]}\r\n
```



```
{"report":[{"dp_id":124,"identifier":"curtain_1","Name":"Drawing room Curtain",
"value":5", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


Note: DP IDs 127 has same behaviour as DP ID 125.

DP ID	128	All on off parameter
Identifier	all_on_off	all_on_off
Name	all_on_off	User can change All on off Name by this field and it will be stored in EEPROM until Factory Reset Example: “Bedroom all on off”
Value	1/0	Send 1 to all on Send 0 to all off

get command: -

```
{"get":[{"dp_id":128}]}\r\n
```

response: -

```
{"report":[{"dp_id":128,"identifier":"all_on_off","Name":"all_on_off","value":0",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":128,"identifier":"all_on_off","Name":"bedroom all on off",
"value":1}]}\r\n
```

report: -

```
{"report":[{"dp_id":128,"identifier":"all_on_off","Name":"bedroom all on off",
"value":0", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

Along with this status of all switches, fan and dimmers send with it when **set** all on off.

DP ID	129	Device BackLight ON color
Identifier	on_color	on_color
Name	on_color	User can change on_color Name by this field and it will be stored in EEPROM until Factory Reset
Value	RED, GREEN, BLUE, YELLOW, CYAN, MAGENTA, ORRANGE, SPRING_GREEN, VIOLET, CHARTREUSE, AZURE, ROSE, WHITE, BLACK	Send Color name to change ON color of backlight.

get command: -

```
{"get":[{"dp_id":129}]}\r\n
```

response: -

```
{"report":[{"dp_id":129,"identifier":"on_color","Name":"on_color","value":"RED"",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":129,"identifier":"on_color","Name":"on_color",
"value":"ORRANGE"}]}\r\n
```

report: -

```
{"report":[{"dp_id":129,"identifier":"on_color","Name":"on_color",
"value":"ORRANGE"", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	130	Device BackLight OFF color
Identifier	off_color	off_color
Name	off_color	User can change on_color Name by this field and it will be stored in EEPROM until Factory Reset
Value	RED, GREEN, BLUE, YELLOW, CYAN, MAGENTA, ORRANGE, SPRING_GREEN, VIOLET, CHARTREUSE, AZURE, ROSE, WHITE, BLACK	Send Color name to change OFF color of backlight.

get command: -


```
{"get":[{"dp_id":130}]}\r\n
```


response: -


```
{"report":[{"dp_id":130,"identifier":"off_color","Name":"off_color","value":"CYAN"",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


set: -


```
{"set":[{"dp_id":130,"identifier":"off_color","Name":"off_color",
"value":"AZURE"}]}\r\n
```


report: -


```
{"report":[{"dp_id":130,"identifier":"off_color","Name":"off_color",
"value":"AZURE"", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	131	Device BackLight Mode Control
Identifier	brightness_mode	brightness_mode
Name	brightness_mode	User can change brightness_mode Name by this field and it will be stored in EEPROM until Factory Reset
Value	1/0	1➔ Auto mode 0 ➔ Manual Mode For changing Backlight brightness manually and disable Lux sensor user must need to set 0 here.

get command: -


```
{"get":[{"dp_id":131}]}\r\n
```


response: -


```
{"report":[{"dp_id":131,"identifier":"brightness_mode","Name":"brightness_mode",
"value":1", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


set: -


```
{"set":[{"dp_id":131,"identifier":"brightness_mode","Name":"brightness_mode",
"value":0}]}\r\n
```


report: -


```
{"report":[{"dp_id":131,"identifier":"brightness_mode","Name":"brightness_mode",
"value":0", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	132	Device BackLight Brightness Manual Control
Identifier	brightness_ctrl	brightness_ctrl
Name	brightness_ctrl	User can change brightness_ctrl Name by this field and it will be stored in EEPROM until Factory Reset
Value	0-100	Range: 0-100 Step Size: 1

get command: -


```
{"get":[{"dp_id":132}]}\r\n
```


response: -


```
{"report":[{"dp_id":132,"identifier":"brightness_ctrl","Name":"brightness_ctrl", "value":99",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```


set: -


```
{"set":[{"dp_id":132,"identifier":"brightness_ctrl","Name":"brightness control",
"value":30}]}\r\n
```


report: -


```
{"report":[{"dp_id":132,"identifier":"brightness_ctrl","Name":"brightness control",
"value":30", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	133	Child Lock
Identifier	child_lock	child_lock
Name	child_lock	User can change child_lock Name by this field and it will be stored in EEPROM until Factory Reset
Value	0/1	0 ➔ Disable 1 ➔ Enable When You Enable Child Lock Touch Switches can not operate via touch its only operable via json commands.

get command: -

```
{"get":[{"dp_id":133}]}\r\n
```

response: -

```
{"report":[{"dp_id":133,"identifier":"child_lock","Name":"child_lock","value":0",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":133,"identifier":"child_lock","Name":"child_lock","value":1}]}\r\n
```

response: -

```
{"report":[{"dp_id":133,"identifier":"child_lock","Name":"child_lock","value":1",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	134	cc1_time
Identifier	cc1_time	child_lock
Name	cc1_time	User can change cc1_time Name by this field and it will be stored in EEPROM until Factory Reset
Value	XXX	Range: 0-255 seconds Step size: 1 This fiend will provide curtain total time between open to close or close to open.

get command: -

```
{"get":[{"dp_id":134}]}\r\n
```

response: -

```
{"report":[{"dp_id":134,"identifier":"cc1_time","Name":"cc1_time","value":40",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":134,"identifier":"cc1_time","Name":"cc1_time","value":32}]}\r\n
```

report: -

```
{"report":[{"dp_id":134,"identifier":"cc1_time","Name":"cc1_time","value":32",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

Note: DP IDs 135 has same behaviour as DP ID 134.

DP ID	136	Switch 1 Momentry
Identifier	momentary_1	momentary_1
Name	momentary_1	User can change momentary_1 Name by this field and it will be stored in EEPROM until Factory Reset
Value	0/1	0 ➔ Disable 1 ➔ Enable When user Enable switch 1 as momentary switch, this switch only enables when touch once finger removed from switch, its automatically off. Used for scene and bell purpose. All switches support this function.

get command: -

```
{"get":[{"dp_id":136}]}\r\n
```

response: -

```
{"report":[{"dp_id":136,"identifier":"momentary_1","Name":"momentary_1",
"value":0", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":136,"identifier":"momentary_1","Name":"momentary_1",
"value":1}]}\r\n
```

response: -

```
{"report":[{"dp_id":136,"identifier":"momentary_1","Name":"momentary_1",
"value":1", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

Note: DP IDs 137 to 145 has same behaviour as DP ID 136.

DP ID	146	Switch 1 Momentry
Identifier	master_button_cnfg	master_button_cnfg
Name	master_button_cnfg	User can change master_button_cnfg Name by this field and it will be stored in EEPROM until Factory Reset
Value	0-10	User can set any button as Master Button. A button can not be a Master and momentary at same time, if user set master button which is already a momentary switch panel will automatic set 0 in momentary. Master button used to turn on/off whole panel with single click. If there is no master button it will return 0.

get command: -

```
{"get":[{"dp_id":146}]}\r\n
```

response: -

```
{"report":[{"dp_id":146,"identifier":"master_button_cnfg",
"Name":"master_button_cnfg","value":0",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":146,"identifier":"master_button_cnfg","Name":"master_button_cnfg",
"value":4}]}\r\n
```

response: -

```
{"report":[{"dp_id":146,"identifier":"master_button_cnfg",
"Name":"master_button_cnfg","value":4",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	147	Power Failure State Save
Identifier	pwr_flr_state_sv	pwr_flr_state_sv
Name	pwr_flr_state_sv	User can change pwr_flr_state_sv Name by this field and it will be stored in EEPROM until Factory Reset
Value	0/1	0 ➔ Disable 1 ➔ Enable By default, this feature is Enable. If user disable this feature, once power come after failure the status of all switches, fans, dimmers will be off. If enable it preserve status of all swathes, fan, dimmers.

get command: -

```
{"get":[{"dp_id":147}]}\r\n
```

response: -

```
{"report":[{"dp_id":147,"identifier":"pwr_flr_state_sv","Name":"pwr_flr_state_sv",
"value":1", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":147,"identifier":"pwr_flr_state_sv","Name":"pwr_flr_state_sv",
"value":0}]}\r\n
```

response: -

```
{"report":[{"dp_id":147,"identifier":"pwr_flr_state_sv","Name":"pwr_flr_state_sv",
"value":0", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

DP ID	148	Dimmer 1 minimum value
Identifier	dimm1_min_val	dimm1_min_val
Name	dimm1_min_val	User can change dimm1_min_val name by this field and it will be stored in EEPROM until Factory Reset
Value	0-100	User can set Dimmer 1 minimum value by this parameter. This parameter is useful for some led load which might start from like 10%. Once user set this parameter, DP_ID 120(dimmer_1) automatically scaled internally. Default: 0 This value must less than dimm1_max_val

get command: -

```
{"get":[{"dp_id":148}]}\r\n
```

response: -

```
{"report":[{"dp_id":148,"identifier":"dimm1_min_val","Name":"dimm1_min_val", "value":0",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":148,"identifier":"dimm1_min_val","Name":"dimm1_min_val",
"value":10}]}\r\n
```

response: -

```
{"report":[{"dp_id":148,"identifier":"dimm1_min_val","Name":"dimm1_min_val", "value":10",
"mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

Note: DP IDs 150, 152 and 154 has same behaviour as DP ID 148.

DP ID	149	Dimmer 1 maximum value
Identifier	dimm1_max_val	dimm1_max_val
Name	dimm1_max_val	User can change dimm1_max_val name by this field and it will be stored in EEPROM until Factory Reset
Value	0-100	User can set Dimmer 1 maximum value by this parameter. Once user set this parameter, DP_ID 120(dimmer_1) automatically scaled internally. Default: 100 This value must greater than dimm1_min_val

get command: -

```
{"get":[{"dp_id":149}]}\r\n
```

response: -

```
{"report":[{"dp_id":149,"identifier":"dimm1_max_val","Name":"dimm1_max_val",
"value":100", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

set: -

```
{"set":[{"dp_id":149,"identifier":"dimm1_max_val","Name":"dimm1_max_val",
"value":90}]}\r\n
```

response: -

```
{"report":[{"dp_id":149,"identifier":"dimm1_max_val","Name":"dimm1_max_val",
"value":90", "mac":"60:55:F9:C9:9B:40","ip":"192.168.2.127"}]}\r\n
```

Note: DP IDs 151, 153 and 155 has same behaviour as DP ID 149.

Other special get only parameters: -

DP ID	Get Command	Return Values
0	{"get":[{"dp_id":0}]}\r\n	**Will Report status of All supported DP ID data**
10	{"get":[{"dp_id":10}]}\r\n	**Will Report status of DP ID 100 to 107(Supported only)**
20	{"get":[{"dp_id":20}]}\r\n	**Will Report status of DP ID 108 to 128(Supported only)**
30	{"get":[{"dp_id":30}]}\r\n	**Will Report status of DP ID 129 to 133(Supported only)**
40	{"get":[{"dp_id":40}]}\r\n	**Will Report status of DP ID 133 to 155(Supported only)**