

# AT Command Comparison Sheet

Version 1.0.1

## 1 Document Revision History

Version	Date	Descriptions
Ver. 1.0.0	28AUG2019	Initial Release
Ver. 1.0.1	16OCT2019	Modify AT+CIPSSLCCONF command according to the firmware version update Add AT+CASEND, AT+AZCON and AT+AZSET command according to the firmware version update

## 2 Comparison Table

The following table summarizes differences of the AT Command between WizFi360 and ESP8266.

Command	Description									
AT+WAKEUPGPIO	WizFi360 does not support this command. User can wake up the module using timer. If you set this command, WizFi360 will return ERROR									
AT+RFPOWER	WizFi360 does not support this command. If you set this command, WizFi360 will return ERROR.									
AT+RFVDD										
AT+SYSRAM										
AT+SYSADC										
AT+SYSMSG										
AT+MDNS										
AT+CIPRECVMODE										
AT+CIPRECVDATA										
AT+CIPRECLEN										
AT+RESTORE	<div>There is a difference in setting parameter.</div> <table><thead><tr><th></th><th>WizFi360</th><th>ESP8266</th></tr></thead><tbody><tr><td>Command</td><td>AT+RESTORE[=&lt;type&gt;]</td><td>AT+RESTORE</td></tr><tr><td>Parameter</td><td>&lt;type&gt;: option parameter<ul style="list-style-type: none"><li>• 0: Restore only station mac address factory setting (default)</li><li>• 1: Restore all factory setting</li></ul></td><td>Restore all factory setting</td></tr></tbody></table>		WizFi360	ESP8266	Command	AT+RESTORE[=<type>]	AT+RESTORE	Parameter	<type>: option parameter <ul style="list-style-type: none"><li>• 0: Restore only station mac address factory setting (default)</li><li>• 1: Restore all factory setting</li></ul>	Restore all factory setting
	WizFi360	ESP8266								
Command	AT+RESTORE[=<type>]	AT+RESTORE								
Parameter	<type>: option parameter <ul style="list-style-type: none"><li>• 0: Restore only station mac address factory setting (default)</li><li>• 1: Restore all factory setting</li></ul>	Restore all factory setting								
AT+SYSIOSETCFG	<div>There is a difference in value of parameter(&lt;pin&gt; and &lt;mode&gt;). Wizfi360 supports two modes and 12 pins, and ESP8266 supports 17 pins and 5 modes. For more details, refer to <a href="#">ESP8266 Pin List</a> and Section 3.1.10 of <a href="#">WizFi360 AT Instruction set</a>.</div>									
AT+SYSIOGETCFG										
AT+CWJAP	<div>There is a difference in setting parameter.</div> <table><thead><tr><th></th><th>WizFi360</th><th>ESP8266</th></tr></thead><tbody><tr><td>Command</td><td>AT+CWJAP=&lt;ssid&gt;,&lt;pwd&gt;[,&lt;bssid&gt;]</td><td>AT+CWJAP=&lt;ssid&gt;,&lt;pwd&gt;[,&lt;bssid&gt;][,&lt;pci_en&gt;]</td></tr></tbody></table> <div>WizFi360 does not support &lt;pci_en&gt; parameter. If you set this parameter, WizFi360 will return ERROR.</div>		WizFi360	ESP8266	Command	AT+CWJAP=<ssid>,<pwd>[,<bssid>]	AT+CWJAP=<ssid>,<pwd>[,<bssid>][,<pci_en>]			
	WizFi360	ESP8266								
Command	AT+CWJAP=<ssid>,<pwd>[,<bssid>]	AT+CWJAP=<ssid>,<pwd>[,<bssid>][,<pci_en>]								
AT+CWLAPOPT	<div>There is a difference in value of parameter(&lt;mask&gt;).</div> <table><thead><tr><th></th><th>WizFi360</th><th>ESP8266</th></tr></thead><tbody><tr><td>Parameter</td><td>&lt;mask&gt;:</td><td>&lt;mask&gt;:</td></tr></tbody></table>		WizFi360	ESP8266	Parameter	<mask>:	<mask>:			
	WizFi360	ESP8266								
Parameter	<mask>:	<mask>:								

	<table><tr><td></td><td><ul style="list-style-type: none"><li>- bit 0: &lt;ecn&gt;</li><li>- bit 1: &lt;ssid&gt;</li><li>- bit 2: &lt;rssi&gt;</li><li>- bit 3: &lt;mac&gt;</li><li>- bit 4: &lt;ch&gt;</li><li>- bit 5: reserved</li><li>- bit 6: reserved</li><li>- bit 7: reserved</li><li>- bit 8: reserved</li><li>- bit 9: reserved</li><li>- bit 10: &lt;wps&gt;</li></ul></td><td><ul style="list-style-type: none"><li>- bit 0: &lt;ecn&gt;</li><li>- bit 1: &lt;ssid&gt;</li><li>- bit 2: &lt;rssi&gt;</li><li>- bit 3: &lt;mac&gt;</li><li>- bit 4: &lt;ch&gt;</li><li>- bit 5: &lt;freq offset&gt;</li><li>- bit 6: &lt;freq calibration&gt;</li><li>- bit 7: &lt;pairwise_cipher&gt;</li><li>- bit 8: &lt;group_cipher&gt;</li><li>- bit 9: &lt;bgn&gt;</li><li>- bit 10: &lt;wps&gt;</li></ul></td></tr></table> <p>WizFi360 does not support some bit. If you set this bit to 1, WizFi360 will return OK and it is not applied.</p>		<ul style="list-style-type: none"><li>- bit 0: &lt;ecn&gt;</li><li>- bit 1: &lt;ssid&gt;</li><li>- bit 2: &lt;rssi&gt;</li><li>- bit 3: &lt;mac&gt;</li><li>- bit 4: &lt;ch&gt;</li><li>- bit 5: reserved</li><li>- bit 6: reserved</li><li>- bit 7: reserved</li><li>- bit 8: reserved</li><li>- bit 9: reserved</li><li>- bit 10: &lt;wps&gt;</li></ul>	<ul style="list-style-type: none"><li>- bit 0: &lt;ecn&gt;</li><li>- bit 1: &lt;ssid&gt;</li><li>- bit 2: &lt;rssi&gt;</li><li>- bit 3: &lt;mac&gt;</li><li>- bit 4: &lt;ch&gt;</li><li>- bit 5: &lt;freq offset&gt;</li><li>- bit 6: &lt;freq calibration&gt;</li><li>- bit 7: &lt;pairwise_cipher&gt;</li><li>- bit 8: &lt;group_cipher&gt;</li><li>- bit 9: &lt;bgn&gt;</li><li>- bit 10: &lt;wps&gt;</li></ul>				
	<ul style="list-style-type: none"><li>- bit 0: &lt;ecn&gt;</li><li>- bit 1: &lt;ssid&gt;</li><li>- bit 2: &lt;rssi&gt;</li><li>- bit 3: &lt;mac&gt;</li><li>- bit 4: &lt;ch&gt;</li><li>- bit 5: reserved</li><li>- bit 6: reserved</li><li>- bit 7: reserved</li><li>- bit 8: reserved</li><li>- bit 9: reserved</li><li>- bit 10: &lt;wps&gt;</li></ul>	<ul style="list-style-type: none"><li>- bit 0: &lt;ecn&gt;</li><li>- bit 1: &lt;ssid&gt;</li><li>- bit 2: &lt;rssi&gt;</li><li>- bit 3: &lt;mac&gt;</li><li>- bit 4: &lt;ch&gt;</li><li>- bit 5: &lt;freq offset&gt;</li><li>- bit 6: &lt;freq calibration&gt;</li><li>- bit 7: &lt;pairwise_cipher&gt;</li><li>- bit 8: &lt;group_cipher&gt;</li><li>- bit 9: &lt;bgn&gt;</li><li>- bit 10: &lt;wps&gt;</li></ul>						
AT+CWLAP	<p>There is a difference in returning parameter.</p> <table><tr><td></td><td>WizFi360</td><td>ESP8266</td></tr><tr><td>Response</td><td>+CWLAP:([&lt;ecn&gt;,&lt;ssid&gt;,&lt;rssi&gt;,&lt;mac&gt;,&lt;channel&gt;,&lt;wps&gt;])</td><td>+CWLAP:&lt;ecn&gt;,&lt;ssid&gt;,&lt;rssi&gt;,&lt;mac&gt;,&lt;channel&gt;,&lt;freq offset&gt;,&lt;freqcali&gt;,&lt;pairwise_cipher&gt;,&lt;group_cipher&gt;,&lt;bgn&gt;,&lt;wps&gt;</td></tr></table>			WizFi360	ESP8266	Response	+CWLAP:([<ecn>,<ssid>,<rssi>,<mac>,<channel>,<wps>])	+CWLAP:<ecn>,<ssid>,<rssi>,<mac>,<channel>,<freq offset>,<freqcali>,<pairwise_cipher>,<group_cipher>,<bgn>,<wps>
	WizFi360	ESP8266						
Response	+CWLAP:([<ecn>,<ssid>,<rssi>,<mac>,<channel>,<wps>])	+CWLAP:<ecn>,<ssid>,<rssi>,<mac>,<channel>,<freq offset>,<freqcali>,<pairwise_cipher>,<group_cipher>,<bgn>,<wps>						
AT+CIPAPMAC	<p>WizFi360 does not support setting AP MAC address. If you set this parameter, WizFi360 will return OK and it is not applied.</p>							
AT+CWCOUNTRY	<p>There is a difference in setting parameter.</p> <table><tr><td></td><td>WizFi360</td><td>ESP8266</td></tr><tr><td>Command</td><td>AT+CWCOUNTRY_CUR=&lt;policy&gt;,&lt;country_code&gt;,&lt;channel_option&gt;</td><td>AT+CWCOUNTRY_CUR=&lt;country_policy&gt;,&lt;country_code&gt;,&lt;start_channel&gt;,&lt;total_channel_count&gt;</td></tr></table> <p>Selecting a channel in WizFi360 is different in ESP8266. If you set this command like ESP8266, WizFi360 will return ERROR. Because the number of parameters is different with ESP8266.</p>			WizFi360	ESP8266	Command	AT+CWCOUNTRY_CUR=<policy>,<country_code>,<channel_option>	AT+CWCOUNTRY_CUR=<country_policy>,<country_code>,<start_channel>,<total_channel_count>
	WizFi360	ESP8266						
Command	AT+CWCOUNTRY_CUR=<policy>,<country_code>,<channel_option>	AT+CWCOUNTRY_CUR=<country_policy>,<country_code>,<start_channel>,<total_channel_count>						
AT+CIPSTART	<p>WizFi360 does not support certificate in SSL Connection.</p>							
AT+CIPSSLCONF	<p>There is a difference in value of parameter(&lt;SSL mode&gt;).</p> <table><tr><td></td><td>WizFi360</td><td>ESP8266</td></tr><tr><td>Parameter</td><td>&lt;SSL mode&gt; :<ul style="list-style-type: none"><li>• 0: WizFi360 not checks certificate of SSL Server.</li><li>• 1: WizFi360 checks certificate of SSL Server. But WizFi360 connects to the server even if verification failed.</li><li>• 2: WizFi360 checks certificate of SSL Server. If verification failed, WizFi360 doesn't connect to the server.</li></ul></td><td>&lt;SSL mode&gt; :<ul style="list-style-type: none"><li>• bit0 : if set to be 1, certificate and private key will be enabled, so SSL server can verify ESP8266; if 0, then will not.</li><li>• bit1 : if set to be 1, CA will be enabled, so ESP8266 can verify SSL server; if 0, then will not.</li></ul></td></tr></table> <p>WizFi360 does not support some bit. If you set this parameter to any value other than 0 ~ 2, WizFi360 will return ERROR.</p>			WizFi360	ESP8266	Parameter	<SSL mode> : <ul style="list-style-type: none"><li>• 0: WizFi360 not checks certificate of SSL Server.</li><li>• 1: WizFi360 checks certificate of SSL Server. But WizFi360 connects to the server even if verification failed.</li><li>• 2: WizFi360 checks certificate of SSL Server. If verification failed, WizFi360 doesn't connect to the server.</li></ul>	<SSL mode> : <ul style="list-style-type: none"><li>• bit0 : if set to be 1, certificate and private key will be enabled, so SSL server can verify ESP8266; if 0, then will not.</li><li>• bit1 : if set to be 1, CA will be enabled, so ESP8266 can verify SSL server; if 0, then will not.</li></ul>
	WizFi360	ESP8266						
Parameter	<SSL mode> : <ul style="list-style-type: none"><li>• 0: WizFi360 not checks certificate of SSL Server.</li><li>• 1: WizFi360 checks certificate of SSL Server. But WizFi360 connects to the server even if verification failed.</li><li>• 2: WizFi360 checks certificate of SSL Server. If verification failed, WizFi360 doesn't connect to the server.</li></ul>	<SSL mode> : <ul style="list-style-type: none"><li>• bit0 : if set to be 1, certificate and private key will be enabled, so SSL server can verify ESP8266; if 0, then will not.</li><li>• bit1 : if set to be 1, CA will be enabled, so ESP8266 can verify SSL server; if 0, then will not.</li></ul>						

<b>AT+CASEND</b>	ESP8266 does not support this command. For more details, refer to Section 3.3.5 of <a href="#">WizFi360 AT Instruction set</a> .
<b>AT+CIPSERVERMAX CONN</b>	There is a difference in value of parameter(<num>). Maximum and default value of <num> are 4 in WizFi360, but 5 in ESP8266. If you set this parameter to 5, WizFi360 will return OK and it is not applied.
<b>AT+MQTTSET</b>	ESP8266 does not support this command. For more details, refer to Section 3.3.29 ~ 3.3.35 of <a href="#">WizFi360 AT Instruction set</a> .
<b>AT+MQTTTOPIC</b>	
<b>AT+MQTTCON</b>	
<b>AT+MQTTPUB</b>	
<b>AT+MQTTDIS</b>	
<b>AT+AZSET</b>	
<b>AZ+AZCON</b>	

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