

AT Command Manual

To connect the RAK7200 module to a LoRa-P2P connection or a LoRaWAN® network, the module must be configured and LoRa® parameters must be set by sending AT commands. Listed below are the summary of the AT commands supported by the RAK7200 Module.

AT Command	Description
at+help	Get all available AT Commands
at+version	Get the current firmware version number
at+get_config=device:status	Get all information about the device's hardware components and their current status.
at+set_config=device:restart	Restart the Device
at+set_config=device:XXX:YYY	<p>Set a certain sensor's status.</p> <ul style="list-style-type: none">• XXX: the sensor's flag- gps = GPS- acc = Accelerate- magn = Magnetic- gyro = Gyroscope- pressure = Pressure- temperature = Temperature- humidity = Humidity- light_strength = Light_strength- voltage = Voltage• YYY - 0: close, 1: open
at+join	Start the join procedure for the LoRaWAN® network
at+send=X:YYY	<p>Send a customized data.</p> <ul style="list-style-type: none">• X: LoRa® port• YYY: the data you want to send. The limited length is 50 Bytes, and the data must be in HEX format.
at+set_config=lora:work_mode:X	<p>Set the Working Mode:</p> <ul style="list-style-type: none">• X - 0: LoRaWAN®, 1: LoRaP2P, 2: Test Mode.
at+set_config=lora:join_mode:X	<p>Set the Join Mode:</p> <ul style="list-style-type: none">• X - 0: OTAA, 1: ABP
at+set_config=lora:class:X	<p>Set the Class for LoRa®.</p> <ul style="list-style-type: none">• X - 0: Class A, 1: Class B, 2: Class C
at+set_config=lora:region:XXX	<p>Set the Region for LoRa® XXX - one of the following items: EU868 EU433, CN470, IN865, EU868, AU915, US915, KR920, AS923.</p>
at+set_config=lora:confirm:X	<p>Set the type of messages which will be sent out through LoRa®:</p> <ul style="list-style-type: none">• X - 0: unconfirm, 1: confirm
at+set_config=lora:ch_mask:X:Y	<p>Set a certain channel on/off</p> <ul style="list-style-type: none">• X - The channel number you want to toggle. You can check which channel can be set before you set it.• Y - 0: off, 1: on
at+set_config=lora:dev_eui:XXXX	<p>Set the device EUI for OTAA.</p> <ul style="list-style-type: none">• XXXX - the device EUI.
at+set_config=lora:app_eui:XXXX	<p>Set the application EUI for OTAA.</p> <ul style="list-style-type: none">• XXXX - the application EUI.

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<code>at+set_config=lora:app_key:XXXX</code>	Set the application key for OTAA. <ul style="list-style-type: none">• XXXX - the application key.
<code>at+set_config=lora:dev_addr:XXXX</code>	Set the device address for ABP. <ul style="list-style-type: none">• XXXX - the device address.
<code>at+set_config=lora:apps_key:XXXX</code>	Set the application session key for ABP. <ul style="list-style-type: none">• XXXX - the application session key.
<code>at+set_config=lora:nwks_key:XXXX</code>	Set the network session key for ABP. <ul style="list-style-type: none">• XXXX - the network session key.
<code>at+set_config=lora:send_interval:X:Y</code>	Set the interval time of sending data. <ul style="list-style-type: none">• X: auto send (1 ==on, 0 == off), Y: the interval time, units are seconds.
<code>at+get_config=lora:status</code>	It will return all of the current information of LoRa®, except the LoRa® Channel.
<code>at+get_config=lora:channel</code>	It will return the state of all LoRa® channels, then you can see which channel is closed and which channel is open very clearly.