



Dragino LoRa® AT Command Sets (For LGT92)

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1 Introduction

This article describes the AT Commands Set used in Dragino LoRa® products, it cover below products:

- ➤ LSN50
- LoRa ST Module
- Serial Port Tool

1.1 How to connect device and send AT command?

Software Setting:

An USB-TTL can be used with standard windows software such as Serial Port Utility. The chosen software should be configured with the following parameters:

• Baud rate: 9600

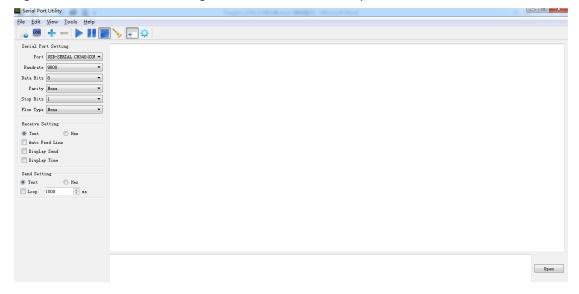
• Data: 8 bit

• Parity: none

• Stop: 1 bit

• Flow type: none

Figure 1 show the standard configuration for Serial Port Utility to use USB-TTL.



All the AT commands have a standard format as "AT+XXX", with XXX denoting the command.

There are four available command behaviors:

- AT+XXX? provides a short help of the given command, for example AT?
- AT+XXX is used to run a command, such as AT+JOIN
- AT+XXX=? is used to get the value of a given command, for example AT+TDC=?
- AT+XXX=<value> is used to provide a value to a command, for example

AT+SENDB=12:12a0ff

The output of the commands is provided on the UART. The output format is as below:



<value><CR><LF>

<CR><LF><Status>

 $\textbf{Note:} \verb|<| CR>| stands for "carriage return" and $<| LF>| stands for "line feed" |$

The <value><CR><LF> output is returned whenever the "help AT+XXX?" or the "get AT+XXX=?" commands are run.

When no value is returned, the <value><CR><LF> output is not returned at all. Every command (except for ATZ used for MCU reset) returns a status string, which is preceded and followed by <CR><LF> in a "<CR><LF><Status>" format. The possible status are:

- OK: command run correctly without error.
- AT_ERROR: generic error
- AT_PARAM_ERROR: a parameter of the command is wrong
- AT_BUSY_ERROR: the LoRa® network is busy, so the command could not completed
- AT_TEST_PARAM_OVERFLOW: the parameter is too long
- AT_NO_NETWORK_JOINED: the LoRa® network has not been joined yet
- AT_RX_ERROR: error detection during the reception of the command

More details on each command description and examples are described in the next part of this section. Note that each command preceded by # is the one provided by the host to the module. Then the return of the module is printed.



2 General Command

2.1 AT: Attention

AT: Attention	
Test Command:	Response:
AT	
	ОК

2.2 AT?: Short Help

AT?: Short Help	
Test Command:	Response:
AT?	AT+ <cmd>?:help on <cmd></cmd></cmd>
	AT+ <cmd>:run <cmd></cmd></cmd>
	AT+ <cmd>=<value>:set the value</value></cmd>
	AT+ <cmd>=?:get the value</cmd>
	<followed all="" by="" commands="" help="" of="" the=""></followed>
	ок

2.3 ATZ: MCU Reset

ATZ: MCU Reset	
Test Command:	Response:
ATZ?	ATZ: Trig a reset of the MCU
	ОК
Test Command:	Response:
ATZ	LSN50 Device/LoRa ST Module
	Image Version: XX
	Frequency Band: XX
	DevEui= XX XX XX XX XX XX XX XX
	<followed and="" by="" information="" rx="" the="" tx=""></followed>

2.4 AT+FDR: Factory Data Reset

AT+FDR: Factory Data Reset	
Test Command:	Response:



AT+FDR	LSN50 Device/LoRa ST Module	
	Image Version: XX	
	Frequency Band: XX	
	DevEui= XX XX XX XX XX XX XX XX	
	Please set the parameters or reset Device to apply change	
Test Command:	Response:	
AT+FDR?	AT+FDR: Reset Parameters to Factory Default, Keys Reserve	
	ОК	

2.5 AT+VER: Image Version and Frequency Band

AT+VER: Image Version and Frequency Band	
Test Command:	Response:
AT+VER=?	1.3 EU868
	ОК
Test Command:	Response:
AT+VER?	AT+VER: Get current image version and Frequency Band
	ОК

2.6 AT+CFG: Print all configurations

AT+CFG: Print all configurations	
Test Command:	Response:
AT+CFG	AT+DEUI = XX XX XX XX XX XX XX XX
	AT+DADDR=XXXXXXXX
	AT+RX2WTO=X
	AT+CHS=868100000
	ОК



2.7 AT+TDC: Application Data Transmission Interval

AT+TDC: Application Data Transmission Interval< The default TDC is 30000 ms>	
Test Command:	Response:
AT+TDC?	AT+TDC: Get or set the application data transmission
	interval in ms
	ОК
AT+TDC=?	Response:
	30000
	ОК
AT+TDC=60000	Response:
	ОК

3 Keys, IDs and EUIs management

3.1 AT+APPEUI: Application EUI

AT+APPEUI: Application EUI <8 hex separated by >	
Test Command:	Response:
AT+APPEUI?	AT+APPEUI: Get or Set the Application EUI
	ОК
Test Command:	Response:
AT+APPEUI=?	00 b3 d5 7e f0 00 4d 34
	ОК
Test Command:	Response:
AT+APPEUI=01 30 48 23 54 76 53	
CD	ОК

3.2 AT+APPKEY: Application Key

AT+APPKEY: Application Key <16 hex separated by >	
Test Command:	Response:
AT+APPKEY?	AT+APPKEY: Get or Set the Application Key
	ок
Test Command:	Response:
AT+APPKEY=?	00 35 55 55 22 23 55 53 43 24 23 42 34 35 35 35



	ОК
Test Command:	Response:
AT+APPKEY=00 35 55 55 22	
23 55 53 43 24 23 42 34 35	ок
35 35	

3.3 AT+APPSKEY: Application Session Key

AT+APPSKEY: Application Session Key <16 hex separated by >	
Test Command:	Response:
AT+APPSKEY?	AT+APPSKEY: Get or Set the Application Session Key
	ОК
Test Command:	Response:
AT+APPSKEY=?	00 7d dc 73 33 d3 eb 9e 14 38 d5 a4 3e 62 5b e2
	ОК
Test Command:	Response:(While Error in format, return
AT+APPSKEY=00 7d dc 73 33	AT_PARAM_ERROR)
d3 eb 9e 14 38 d5 a4 3e 62	
5b e2	ОК

3.4 AT+DADDR: Device Address

AT+DADDR: Device Address <4 hex digit separate by >	
Test Command:	Response:
AT+DADDR?	AT+DADDR: Get or Set the Device Address
	ОК
Test Command:	Response: (While Error in format, return
AT+DADDR=?	AT_PARAM_ERROR)
	A8 40 41 FF
	ОК
Test Command:	Response:
AT+DADDR=A8 40 41 FF	
	ОК



3.5 AT+DEUI: Device EUI

AT+DEUI: Device EUI<8 hex separated by:>	
Test Command:	Response:
AT+DEUI?	AT+DEUI: Get or Set the Device EUI
	ОК
Test Command:	Response:
AT+DEUI=?	00 44 34 22 33 45 55 55
	ОК
Test Command:	Response:(System will write new value to Device EUI, While
AT+DEUI=A8 40 41 FF FF 12 34 56	Error in format, return AT_PARAM_ERROR)
	ОК

3.6 AT+NWKID: Network ID(You can enter this command change only after successful network connection)

AT+NWKID: Network ID<4 hex separated by:>	
Test Command:	Response:
AT+NWKID?	AT+NWKID: Get or Set the Network ID
	ОК
Test Command:	Response:
AT+NWKID=?	a8 40 41 ff
	ОК
Test Command:	Response:
AT+NWKID=A8 40 41 FF	
	ОК

3.7 AT+NWKSKEY: Network Session Key

AT+NWKSKEY: Network Session Key<16 hex separated by:>	
Test Command:	Response:
AT+NWKSKEY?	AT+NWKSKEY: Get or Set the Network Session Key
	ОК
Test Command:	Response:
AT+NWKSKEY=?	00 4f 19 25 52 ce 97 09 d7 fa 84 71 db 51 02 92



	-
	ок
Test Command:	Response:
AT+NWKSKEY=A8 40 41 FF FF 12	
34 56 00 01 02 04 05 06 06 07	ок

4 Joining and sending date on LoRa® network

4.1 AT+CFM: Confirm Mode

AT+CFM: Confirm Mode	
Test Command:	Response:
AT+CFM?	AT+CFM: Get or Set the confirmation mode (0-1)
	ОК
Test Command:	Response:
AT+CFM=?	0
	ОК
Test Command:	Response:
AT+CFM=1	
	ОК
Test Command:	While Error in format, return
AT+CFM=2	AT_PARAM_ERROR

4.2 AT+CFS: Confirm Status

AT+ CFS: Confirm Status	
Test Command:	Response:
AT+CFS?	AT+CFS: Get confirmation status of the last AT+SEND (0-1)
	ОК
Test Command:	Response:
AT+CFS=?	0
	ОК



4.3 AT+JOIN: Join LoRa® Network

AT+ JOIN: Join LoRa® Network	
Test Command:	Response:
AT+JOIN	
	ОК
Test Command:	Response:
AT+ JOIN?	AT+JOIN: Join network
	ОК
	While Error in format, return
	AT_BUSY_ERROR

4.4 AT+NJM: LoRa® Network Join Mode

AT+ NJM: LoRa® Network Join Mode	
Test Command:	Response:
AT+NJM=?	1
	ОК
Test Command:	Response:
AT+NJM?	AT+NJM: Get or Set the Network Join Mode. (0: ABP, 1:
	OTAA)
	ОК
Test Command:	Response:
AT+NJM=0	
	ОК
Test Command:	While Error in format, return
AT+NJM=2	AT_PARAM_ERROR

4.5 AT+NJS: LoRa® Network Join Status

AT+ NJS: LoRa® Network Join Status	
Test Command:	Response:
AT+NJS=?	0
	ОК
Test Command:	Response:
AT+NJS?	AT+NJS: Get the join status
	ОК



4.6 AT+RECV: Print Last Received Data in Raw Format

AT+ RECV: Print Last Received Data in Raw Format <port:data></port:data>	
Test Command:	Response:
AT+RECV=?	0:
	ОК
Test Command:	Response:
AT+RECV?	AT+RECV: print last received data in raw format
	ОК

4.7 AT+RECVB: Print Last Received Data in Binary Format

AT+ RECVB: Print Last Received Data in Binary Format <port:data></port:data>	
Test Command:	Response:
AT+RECVB=?	2: 0010
	ОК
Test Command:	Response:
AT+RECVB?	AT+RECVB: print last received data in binary format (with
	hexadecimal values)
	ОК

4.8 AT+SEND: Send Text Data

AT+ SEND: Send Text Data <port:data></port:data>	
Test Command:	Response:
AT+SEND?	AT+SEND: Send text data along with the application port
	ок
Test Command:	Response:
AT+SEND=12:hello world	
	ОК
	While Error in format, return
	AT_BUSY_ERROR/AT_BUSY_ERROR/AT_NO_NETWORK_JOI
	NED



4.9 AT+SENB: Send Hexadecimal Data

AT+SENDB: Send Hexadecimal Data <port:data></port:data>	
Test Command:	Response:
AT+SENDB?	AT+SENDB: Send hexadecimal data along with the
	application port
	ОК
Test Command:	Response:
AT+SENDB=12:abcdef012345678	
9	ОК
Test Command:	While Error in format, return
AT+SENDB=abcdef0123456789	AT_PARAM_ERROR
	AT_BUSY_ERROR/AT_NO_NETWORK_JOINED

5 LoRa® network management

5.1 AT+ADR: Adaptive Rate

AT+ ADR: Adaptive Rate	
Test Command:	Response:
AT+ADR=?	1
	ОК
Test Command:	Response:
AT+ADR?	AT+ADR: Get or Set the Adaptive Data Rate setting. (0: off,
	1: on)
	ОК
Test Command:	Response:
AT+ADR=0	
	ОК
	While Error in format, return
	AT_PARAM_ERROR

5.2 AT+CLASS: LoRa® Class(Currently only support class A, class C)

AT+ CLASS: LoRa® Class	
Test Command:	Response:
AT+CLASS=?	Α
	ок



Test Command:	Response:
AT+CLASS?	AT+CLASS: Get or Set the Device Class
	ОК
Test Command:	Response:
AT+CLASS=C	
	ОК
	While Error in format, return
	AT_PARAM_ERROR

5.3 AT+DCS: Duty Cycle Setting

AT+ DCS: Duty Cycle Setting	
Test Command:	Response:
AT+DCS?	AT+DCS: Get or Set the ETSI Duty Cycle setting - 0=disable,
	1=enable - Only for testing
	ОК
Test Command:	Response:
AT+DCS=?	1
	ОК
Test Command:	Response:
AT+DCS=1	
	ОК
	While Error in format, return
	AT_PARAM_ERROR

5.4 AT+DR: Data Rate (Can Only be Modified after ADR=0)

AT+DR: Data Rate	
Test Command:	Response:
AT+DR=?	5
	ок
Test Command:	Response:
AT+DR?	Get or Set the Data Rate. (0-7 corresponding to DR_X)
	ОК
Test Command:	Response:
AT+DR=2	



ОК
While Error in format, return
AT_PARAM_ERROR

5.5 AT+FCD: Frame Counter Downlink

AT+ FCD: Frame Counter Downlink	
Test Command:	Response:
AT+FCD=?	0
	ОК
Test Command:	Response:
AT+FCD?	AT+FCD: Get or Set the Frame Counter Downlink
	ОК
Test Command:	Response:(System will write new value to FCD)
AT+FCD=10	
	ОК
	While Error in format, return
	AT_PARAM_ERROR

5.6 AT+FCU: Frame Counter Uplink

AT+ FCU: Frame Counter Uplink	
Test Command:	Response:
AT+FCU=?	0
	ОК
Test Command:	Response:
AT+FCU?	AT+FCU: Get or Set the Frame Counter Uplink
	ОК
Test Command:	Response:
AT+FCU=10	
	ОК
Test Command:	Response:
AT+ FCU=10.1	While Error in format, return
	AT_PARAM_ERROR



5.7 AT+JN1DL: Join Accept Delay1

AT+ JN1DL: Join Accept Delay1	
Test Command:	Response:
AT+JN1DL=?	5000
	ОК
Test Command:	Response:
AT+JN1DL?	AT+JN1DL: Get or Set the Join Accept Delay between the
	end of the Tx and the Join Rx Window 1 in ms
	ОК
Test Command:	Response:
AT+JN1DL=10000	
	ОК
	While Error in format, return
	AT_PARAM_ERROR/AT_BUSY_ERROR

5.8 AT+JN2DL: Join Accept Delay2

AT+ JN2DL: Join Accept Delay2	
Test Command:	Response:
AT+JN2DL=?	6000
	ОК
Test Command:	Response:
AT+JN2DL?	AT+JN2DL: Get or Set the Join Accept Delay between the
	end of the Tx and the Join Rx Window 2 in ms
	ОК
Test Command:	Response:
AT+JN2DL=20000	
	ОК
	While Error in format, return
	AT_PARAM_ERROR/AT_BUSY_ERROR

5.9 AT+PNM: Public Network Mode

AT+ PNM: Public Network Mode	
Test Command:	Response:
AT+PNM=?	1



	ОК
Test Command:	Response:
AT+PNM?	AT+PNM: Get or Set the public network mode. (0: off, 1:
	on)
	ОК
Test Command:	Response:(System will write new value to PNM)
AT+PNM=1	
	ОК
	While Error in format, return
	AT_PARAM_ERROR/AT_BUSY_ERROR

5.10 AT+RX1DL: Receive Delay1

AT+ RX1DL: Receive Delay1	
Test Command:	Response:
AT+RX1DL=?	1000
	ОК
Test Command:	Response:
AT+RX1DL?	AT+RX1DL: Get or Set the delay between the end of the Tx
	and the Rx Window 1 in ms
	ОК
Test Command:	Response:
AT+RX1DL=1500	
	ОК
	While Error in format, return
	AT_BUSY_ERROR/AT_PARAM_ERROR

5.11 AT+RX2DL: Receive Delay2

AT+ RX2DL: Receive Delay2	
Test Command:	Response:
AT+RX2DL=?	2000
	ОК
Test Command:	Response:
AT+RX2DL?	AT+RX2DL: Get or Set the delay between the end of the Tx
	and the Rx Window 2 in ms



	ОК
Test Command:	Response:
AT+RX2DL=2500	
	ОК
	While Error in format, return
	AT_BUSY_ERROR/AT_PARAM_ERROR

5.12 AT+RX2DR: Rx2 Window Data Rate

AT+ RX2DR: Rx2 Window Data Rate	
Test Command:	Response:
AT+RX2DR=?	
	ОК
Test Command:	Response:
AT+RX2DR?	AT+RX2DR: Get or Set the Rx2 window data rate (0-7
	corresponding to DR_X)
	ОК
Test Command:	Response:
AT+RX2DR=6	
	ОК
	Response:
	While Error in format, return
	AT_PARAM_ERROR

5.13 AT+RX2FQ: Rx2 Window Frequency

AT+ RX2FQ: Rx2 Window Frequency	
Test Command:	Response:
AT+RX2FQ=?	434665000
	ОК
Test Command:	Response:
AT+RX2FQ?	AT+RX2FQ: Get or Set the Rx2 window frequency
	ОК
Test Command:	Response:
AT+RX2FQ=434665000	
	ОК
	While Error in format, return
	AT_BUSY_ERROR / AT_BUSY_ERROR



5.14 AT+TXP: Transmit Power

AT+ TXP: Transmit Power	
Test Command:	Response:
AT+TXP=?	0
	ОК
Test Command:	Response:
AT+TXP?	AT+TXP: Get or Set the Transmit Power (0-5, MAX:0, MIN:5,
	according to LoRaWAN Spec)
	ОК
Test Command:	Response:
AT+ TXP=1	
	ОК
	While Error in format, return
	AT_PARAM_ERROR

5.15 AT+RSSI: RSSI of the Last Received Packet

AT+ RSSI: RSSI of the Last Received Packet	
Test Command:	Response:
AT+RSSI=?	0
	ОК
Test Command:	Response:
AT+RSSI?	AT+RSSI: Get the RSSI of the last received packet
	ОК

5.16 AT+SNR: SNR of the Last Received Packet

AT+ SNR: SNR of the Last Received Packet				
Test Command:	Response:			
AT+SNR=?	0			
	ОК			
Test Command:	Response:			
AT+SNR?	AT+SNR: Get the SNR of the last received packet			
	ок			



5.17 AT+PORT: Application Port

AT+PORT: Application Port	
Test Command:	Response:
AT+PORT=21	
	ОК
Test Command:	Response:
AT+PORT?	AT+PORT: Get or set the application port
	ОК
Test Command:	Response:
AT+PORT=?	21
	ОК

5.18 AT+ CHS: Single Channel Mode

AT+ CHS: Single Channel Mode	
Test Command:	Response:
AT+ CHS =?	0
	ОК
Test Command:	Response:
AT+ CHS?	AT+CHS: Get or Set Frequency (Unit: Hz) for Single Channel
	Mode
	ОК
Test Command:	Response:
AT+ CHS =868100000	
	ОК

5.19 AT+ CHE: Eight Channel Mode

AT+ CHE: Eight Channel Mode	AT+ CHE: Eight Channel Mode				
Test Command:	Response:				
AT+ CHE =?	1				
	902. 3 902. 5 902. 7 902. 9 903. 1 903. 3 903. 5 903. 7				
	ОК				
Test Command:	Response:				
AT+ CHE?	AT+CHE: Get or Set eight channels mode,Only for				
	US915,AU915,CN470				



	ОК
Test Command:	Response:
AT+ CHE =1	
	ОК

CHE		CN470 Uplink Channels(125KHz,4/5,Unit:MHz,CHS=0)							
0		ENABLE Channel 80-95							
1	486.3	486.5	486.7	486.9	487.1	487.3	487.5	487.7	Channel 80-87
2	487.9	488.1	488.3	488.5	488.7	488.9	489.1	489.3	Channel 88-95

CHE		US915 Uplink Channels(125KHz,4/5,Unit:MHz,CHS=0)							
0				EN	IABLE C	nannel 0	-63		
1	902.3	902.3 902.5 902.7 902.9 903.1 903.3 903.5 903.7 Channel 0-7						Channel 0-7	
2	903.9	904.1	904.3	904.5	904.7	904.9	905.1	905.3	Channel 8-15
3	905.5	905.7	905.9	906.1	906.3	906.5	906.7	906.9	Channel 16-23
4	907.1	907.3	907.5	907.7	907.9	908.1	908.3	908.5	Channel 24-31
5	908.7	908.9	909.1	909.3	909.5	909.7	909.9	910.1	Channel 32-39
6	910.3	910.5	910.7	910.9	911.1	911.3	911.5	911.7	Channel 40-47
7	911.9	912.1	912.3	912.5	912.7	912.9	913.1	913.3	Channel 48-55
8	913.5	913.7	913.9	914.1	914.3	914.5	914.7	914.9	Channel 56-63

CHE		AU915 Uplink Channels(125KHz,4/5,Unit:MHz, CHS=0)							
0				EN	IABLE C	nannel 0	-63		
1	915.2	915.4	915.6	915.8	916	916.2	916.4	916.6	Channel 0-7
2	916.8	917	917.2	917.4	917.6	917.8	918	918.2	Channel 8-15
3	918.4	918.6	918.8	919	919.2	919.4	919.6	919.8	Channel 16-23
4	920	920.2	920.4	920.6	920.8	921	921.2	921.4	Channel 24-31
5	921.6	921.8	922	922.2	922.4	922.6	922.8	923	Channel 32-39
6	923.2	923.4	923.6	923.8	924	924.2	924.4	924.6	Channel 40-47
7	924.8	925	925.2	925.4	925.6	925.8	926	926.2	Channel 48-55
8	926.4	926.6	926.8	927	927.2	927.4	927.6	927.8	Channel 56-63



5.20 AT+SGM: Set Motion status

AT+SGM: Get or Set Motion status				
Test Command:	Response:			
AT+ SGM =?	0			
	ОК			
Test Command:	Response:			
AT+ SGM?	Get or set the Disable Motion Sensor (1), Enable Motion			
	Sensor(0)			
	If motion sensor disable: total payload become 8 bytes			
	If motion sensor enable: total payload become 12 bytes			
	ОК			
Test Command:	Response:			
AT+ SGM =1				
	ОК			

5.21 AT+GPST: Set positioning failed time to send

AT+GPST: Get or Set positioning failed time to send			
Test Command:	Response:		
AT+ GPST =?	150		
	ОК		
Test Command:	Response:		
AT+ GPST?	Get or set the GPS positioning time in s		
	ОК		
Test Command:	Response:		
AT+ GPST =120			
	ОК		

