

# <How to communicate using unicast command>

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☞ system setup

PC -(Serial)- ZE10A - (wireless) - ZE10B -(Serial)- PC  
- ZE10C -(Serial)- PC

## 1. Network configuration

### 1-1. ZE10A (Coordinator\_Master)

AT+NODETYPE=1<CR> OK AT+PANID=1111<CR> OK ATZ<CR> OK	#Node Type configuration(1=Coordinator)  #PAN ID configuration(4 digit number)  #Apply and Reboot
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### 1-2. ZE10B (Router\_Slave1)

AT+NODETYPE=2<CR> OK AT+PANID=1111<CR> OK ATZ<CR> OK	#Node Type configuration(2=Router)  #PAN ID configuration(4 digit number, same as Master)  #Apply and Reboot
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### 1-3. ZE10C (Router\_Slave2)

AT+NODETYPE=2<CR> OK AT+PANID=1111<CR> OK ATZ<CR> OK	#Node Type configuration(2=Router)  #PAN ID configuration(4 digit number, same as Master)  #Apply and Reboot
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## 2. Data transmit mode configuration

### 2-1. ZE10A (Coordinator\_Master)

AT+TRANSMITMODE=0<CR> OK ATS11=1 OK ATZ<CR> OK	#TRANSMITMODE configuration(0=command mode) #Display the received data #Apply and Reboot
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### 2-2. ZE10B (Router\_Slave1)

AT+TRANSMITMODE=0<CR> OK ATS11=1 OK ATZ<CR> OK	#TRANSMITMODE configuration(0=command mode) #Display the received data #Apply and Reboot
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### 2-3. ZE10B (Router\_Slave2)

AT+TRANSMITMODE=0<CR> OK ATS11=1 OK ATZ<CR> OK	#TRANSMITMODE configuration(0=command mode) #Display the received data #Apply and Reboot
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## 3. Data Transmission/Reception

### 3-1. Data transmission from ZE10A (Coordinator\_Master) to a Slave

AT+UNICAST=000195000000000B, This is from Master OK	# Send message to a slave (here, ZE10B as example) from ZE10A by AT command
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### 3-2. Data transmission from ZE10B (Router\_Slave1) to Master

+000195000000000A   This is from Master AT+UNICAST=000195000000000A, This is from ZE10B	# Received data from Master # Send message to master
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### 3-3. Data transmission from ZE10C (RouterSlave2) to Master

AT+UNICAST=000195000000000A, This is from ZE10C	# Send message to master
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### 3-4. Data reception at ZE10A (Coordinator\_Master)

+000195000000000B   This is from ZE10B +000195000000000C   This is from ZE10C	# Slave device   message # Slave device   message
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## ● Appendix

### ➤ How to use Short Node ID

AT+DS ZC*  000195000000000A  AAAA ~ ZR  000195000000000B  BBBB ~ ZR  000195000000000C  CCCC ~ OK AT+UNICAST=BBBB,[message] OK AT+UNICAST=CCCC,[message] OK	# Display the node id in the ZigBee network  #Using the short node ID 'BBBB' to send message to ZE10B #Using the short node ID 'CCCC' to send message to ZE10C
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