

## ezDisplay LCM Command List

V.2 171113

**Default baud rate of LCM is 115200**

**Except for codes for 0xd1~0xd9, 0xa0~ab and 0xf0~0xf6 all other codes only change the display memory, thus you have to execute the "0xd1" code (Function of refresh the display) to display the changes in the display memory after you write a character, string , pattern or draw a line.**

**Wrong Example:**

```
Write_5X7_String(7, 17 , positive, "RPM");
Write_8X16_Pattern(1, 45, positive, 0);
Draw_Rectangle( 0, 0, 127, 127, positive );
/*Without excute the Show_Display_Memory()
function the change only in the memory,
it won't display */
```

**Correct Example:**

```
Write_5X7_String(7, 17 , positive, "RPM");
Write_8X16_Pattern(1, 45, positive, 0);
Draw_Rectangle( 0, 0, 127, 127, positive );
Show_Display_Memory();
```

/\*With the execution of Show\_Display\_Memory() function, the change of display memory will be displayed\*/

Code	Function	LCM default for Hex Command			
		Sequence of HEX mode	API for Arduino ( Hex mode)	Instruction of AT mode	API for Arduino ( AT mode)
N/A	Send Page (128X64 bitmap) to OLED & LCM  <i>(An array consist of 1024 bytes bitmap)</i>	1. A "for" loop to send 1024 bytes user define display information 2. Wait until receive a module available byte ('E') from ezDisplay	for (i = 0 ; i < 1024; i++) {   Serial.write(User_define_array[i]); } while (Serial.read() !='E') {}	1. A "for" loop to send 1024 bytes user define display information 2. Wait until receive a module available byte ('E') from ezDisplay	for (i = 0 ; i < 1024; i++) {   Serial.write(User_define_array[i]); } while (Serial.read() !='E') {}
N/A	Text input without AT command	<b>Text input 5x7 string</b> Total 8 lines, and 21 characters per line could be input on OLED & LCM screen			
0x80	Write a 5X7 Character	1. Send <b>0x80</b> 2. Send which line to put this character 3. Send which column to put this character 4. Send character's ASCII code 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_5X7_Character( int line, int column, char Char) {   Serial.write( <b>0x80</b> );   Serial.write(line);   Serial.write(column);   Serial.write(Char);   while (Serial.read() !='E') {}   delay(2); }	1. AT <b>80</b> =(line,column,Character) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT80=(0,0,A)	Write_AT_Command("AT <b>80</b> =(0,0,A)"); void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }
0x81	Write a 5X7 String	1. Send <b>0x81</b> 2. Send which line to start the string 3. Send which column to start the string 4. Send string 5. Wait until receive a module available byte('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_5X7_String( int line, int column, char * string) {   Serial.write( <b>0x81</b> );   Serial.write(line);   Serial.write(column);   Serial.print(string);   while (Serial.read() !='E') {}   delay(2); }	1. AT <b>81</b> =(line,column,String) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT81=(0,0,ABCD1234)	Write_AT_Command("AT <b>81</b> =(0,0,ABCD1234)"); void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }

0x82	Write a 8X16 Character  (not available for 96x8 RGB LED)	1. Send <b>0x82</b> 2. Send which line to put this character 3. Send which column to put this character 4. Send character's ASCII code 5. Wait until receive a module available byte('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_8X16_Character( int line, int column, char Char) { Serial.write( <b>0x82</b> ); Serial.write(line); Serial.write(column); Serial.write(Char); while (Serial.read() !='E') {} delay(2); }	1. AT82=(line,column,Character) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT82=(0,0,A)	Write_AT_Command("AT82=(0,0,A)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
0x83	Write a 8X16 String  (not available for 96x8 RGB LED)	1. Send <b>0x83</b> 2. Send which line to start the string 3. Send which column to start the string 4. Send string 5. Wait until receive a module available byte('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_8X16_String( int line, int column, char * string) { Serial.write( <b>0x83</b> ); Serial.write(line); Serial.write(column); Serial.print(string); while (Serial.read() !='E') {} delay(2); }	1. AT83=(line,column,String) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT83=(0,0,ABCD1234)	Write_AT_Command("AT83=(0,0,ABCD1234)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
0x84	Display a 8X8 pattern	1. Send <b>0x84</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_8X8_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int Pattern_ID){ Serial.write( <b>0x84</b> ); Serial.write(Up_Left_Xpos); Serial.write(Up_Left_Ypos); Serial.write(Pattern_ID); while (Serial.read() !='E') {} delay(2); }	1. AT84=(X position, Y position, pattern ID) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT84=(16,32,1)	Write_AT_Command("AT84=(16,32,1)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
0x85	Display a 8X16 pattern  (not available for 96x8 RGB LED)	1. Send <b>0x85</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_8X16_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int Pattern_ID){ Serial.write( <b>0x85</b> ); Serial.write(Up_Left_Xpos); Serial.write(Up_Left_Ypos); Serial.write(Pattern_ID); while (Serial.read() !='E') {} delay(2); }	1. AT85=(X position,Y position,pattern ID) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT85=(16,32,1)	Write_AT_Command("AT85=(16,32,1)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
0x86	Display a 16X16 pattern  (not available for 96x8 RGB LED)	1. Send <b>0x86</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_16X16_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int Pattern_ID){ Serial.write( <b>0x86</b> ); Serial.write(Up_Left_Xpos); Serial.write(Up_Left_Ypos); Serial.write(Pattern_ID); while (Serial.read() !='E') {} delay(2); }	1. AT86=(X position,Y position,pattern ID) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT86=(16,32,1)	Write_AT_Command("AT86=(16,32,1)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }

0x87	Display a 32X32 pattern  (not available for 96x8 RGB LED)	1. Send <b>0x87</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	<pre>void Write_32X32_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int Pattern_ID) {   Serial.write(0x87);   Serial.write(Up_Left_Xpos);   Serial.write(Up_Left_Ypos);   Serial.write(Pattern_ID);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT87=(X position,Y position,pattern ID) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT87=(16,32,1)	<pre>Write_AT_Command("AT87=(16,32,1)")  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x88	Display a 16X32 pattern  (not available for 96x8 RGB LED)	1. Send <b>0x88</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED	<pre>void Write_16X32_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int Pattern_ID) {   Serial.write(0x88);   Serial.write(Up_Left_Xpos);   Serial.write(Up_Left_Ypos);   Serial.write(Pattern_ID);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT88=(X position,Y position,pattern ID) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT88=(16,32,1)	<pre>Write_AT_Command("AT88=(16,32,1)")  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x90	Draw a line	1. Send <b>0x90</b> 2. Send the X coordinate of first point 3. Send the Y coordinate of first point 4. Send the X coordinate of second point 5. Send the Y coordinate of second point 6. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 7. Wait until receive a module available byte ('E') from ezDisplay 8. Wait 2ms, but NO need for OLED.	<pre>void Draw_Line( int X0_Pos, int Y0_Pos, int X1_Pos, int Y1_Pos, int positive ) {   Serial.write(0x90);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(X1_Pos);   Serial.write(Y1_Pos);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT90=(X0 position,Y0 position,X1 position,Y1 position, <b>0~255</b> ) *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT90=(0,0,127,63,1) : '1' positive mode	<pre>Write_AT_Command("AT90=(0,0,127,63,1)")  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x91	Draw a Rectangle	1. Send <b>0x91</b> 2. Send the X coordinate of up left corner 3. Send the Y coordinate of up left corner 4. Send the X coordinate of bottom right corner 5. Send the Y coordinate of bottom right corner 6. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 7. Wait until receive a module available byte ('E') from ezDisplay 8. Wait 2ms, but NO need for OLED.	<pre>void Draw_Rectangle( int X0_Pos, int Y0_Pos, int X1_Pos, int Y1_Pos, int positive ) {   Serial.write(0x91);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(X1_Pos);   Serial.write(Y1_Pos);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT91=(X0 position,Y0 position,X1 position,Y1 position, <b>0~255</b> ) *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT91=(10,10,100,49,1) : '1' positive mode	<pre>Write_AT_Command("AT91=(10,10,100,49,1)")  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

0x92	Draw a filled Rectangle	1. Send <b>0x92</b> 2. Send the X coordinate of up left corner 3. Send the Y coordinate of up left corner 4. Send the X coordinate of bottom right corner 5. Send the Y coordinate of bottom right corner 6. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 7. Wait until receive a module available byte ('E') from ezDisplay 8. Wait 2ms, but NO need for OLED.	<pre>void Draw_Filled_Rectangle( int X0_Pos, int Y0_Pos, int X1_Pos, int Y1_Pos, int positive ) {   Serial.write(<b>0x92</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(X1_Pos);   Serial.write(Y1_Pos);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. <b>AT92=(X0 position,Y0 position,X1 position,Y1 position,0~255)</b> *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT92=(10,10,100,49,1) : '1' positive mode	<pre>Write_AT_Command("AT92=(10,10,100,49,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x93	Draw a Square	1. Send <b>0x93</b> 2. Send the X coordinate of up left corner 3. Send the Y coordinate of up left corner 4. Send the width of this square 5. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 6. Wait until receive a module available byte ('E') from ezDisplay 7. Wait 2ms, but NO need for OLED.	<pre>void Draw_Square( int X0_Pos, int Y0_Pos, int width, int positive ) {   Serial.write(<b>0x93</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(width);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. <b>AT93=(X position,Y position,Width,0~255)</b> *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT93=(8,10,30,1) : '1' positive mode	<pre>Write_AT_Command("AT93=(8,10,30,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x94	Draw a Circle	1. Send <b>0x94</b> 2. Send the X coordinate of the center 3. Send the Y coordinate of the center 4. Send the radius of this circle 5. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 6. Wait until receive a module available byte ('E') from ezDisplay 7. Wait 2ms, but NO need for OLED.	<pre>void Draw_Circle( int X0_Pos, int Y0_Pos, int radius, int positive ) {   Serial.write(<b>0x94</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(radius);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. <b>AT94=(X position,Y position,Radius,0~255)</b> *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT94(64,32,30,1) : '1' positive mode	<pre>Write_AT_Command("AT94(64,32,30,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x95	Draw a filled Circle	1. Send <b>0x95</b> 2. Send the X coordinate of the center 3. Send the Y coordinate of the center 4. Send the radius of this circle 5. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 6. Wait until receive a module available byte ('E') from ezDisplay 7. Wait 2ms, but NO need for OLED.	<pre>void Draw_Filled_Circle( int X0_Pos, int Y0_Pos, int radius, int positive ) {   Serial.write(<b>0x95</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(radius);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. <b>AT95=(X position,Y position,Radius,0~255)</b> *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT95(64,32,30,1) : '1' positive mode	<pre>Write_AT_Command("AT95=(64,32,30,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

0x96	Draw a tip upward Triangle	<p>1. Send <b>0x96</b>      2. Send the X coordinate of the tip      3. Send the Y coordinate of the tip      4. Send the height of the tip to the bottom      5. Send <b>0 or 1</b>        1: Positive Mode        0: Negative Mode      6. Wait until receive a module available byte ('E') from ezDisplay      7. Wait 2ms, but NO need for OLED.</p>	<pre>void Draw_Triangle_Up_Ward( int X0_Pos, int Y0_Pos, int height, int positive ) {   Serial.write(0x96);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(height);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	<p>1. AT96=(X position,Y position,Height,0~255)        *0~255: Send <b>0 or 1</b>          1: Positive Mode          0: Negative Mode</p> <p>2. Wait until receive a module available byte ('E') from ezDisplay      3. Wait 2ms</p> <p><b>&lt;example&gt;</b>      AT96=(64,10,30,1) : '1' positive mode</p>	<pre>Write_AT_Command("AT96=(64,10,30,1)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x97	Draw a filled tip upward Triangle	<p>1. Send <b>0x97</b>      2. Send the X coordinate of the tip      3. Send the Y coordinate of the tip      4. Send the height of the tip to the bottom      5. Send <b>0 or 1</b>        1: Positive Mode        0: Negative Mode      6. Wait until receive a module available byte ('E') from ezDisplay      7. Wait 2ms, but NO need for OLED.</p>	<pre>void Draw_Filled_Triangle_Up_Ward( int X0_Pos, int Y0_Pos, int height, int positive ) {   Serial.write(0x97);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(height);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	<p>1. AT97=(X position,Y position,Height,0~255)        *0~255: Send <b>0 or 1</b>          1: Positive Mode          0: Negative Mode</p> <p>2. Wait until receive a module available byte ('E') from ezDisplay      3. Wait 2ms</p> <p><b>&lt;example&gt;</b>      AT97=(64,10,30,1) : '1' positive mode</p>	<pre>Write_AT_Command("AT97=(64,10,30,1)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x98	Draw a tip downward Triangle	<p>1. Send <b>0x98</b>      2. Send the X coordinate of the tip      3. Send the Y coordinate of the tip      4. Send the height of the tip to the top      5. Send <b>0 or 1</b>        1: Positive Mode        0: Negative Mode      6. Wait until receive a module available byte ('E') from ezDisplay      7. Wait 2ms, but NO need for OLED.</p>	<pre>void Draw_Triangle_Down_Ward( int X0_Pos, int Y0_Pos, int height, int positive ) {   Serial.write(0x98);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(height);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	<p>1. AT98=(X position,Y position,Height,0~255)        *0~255: Send <b>0 or 1</b>          1: Positive Mode          0: Negative Mode</p> <p>2. Wait until receive a module available byte ('E') from ezDisplay      3. Wait 2ms</p> <p><b>&lt;example&gt;</b>      AT98=(64,50,30,1) : '1' positive mode</p>	<pre>Write_AT_Command("AT98=(64,50,30,1)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x99	Draw a filled tip downward Triangle	<p>1. Send <b>0x99</b>      2. Send the X coordinate of the tip      3. Send the Y coordinate of the tip      4. Send the height of the tip to the top      5. Send <b>0 or 1</b>        1: Positive Mode        0: Negative Mode      6. Wait until receive a module available byte ('E') from ezDisplay      7. Wait 2ms, but NO need for OLED.</p>	<pre>void Draw_Filled_Triangle_Down_Ward( int X0_Pos, int Y0_Pos, int height, int positive ) {   Serial.write(0x99);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(height);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	<p>1. AT99=(X position,Y position,Height,0~255)        *0~255: Send <b>0 or 1</b>          1: Positive Mode          0: Negative Mode</p> <p>2. Wait until receive a module available byte ('E') from ezDisplay      3. Wait 2ms</p> <p><b>&lt;example&gt;</b>      AT99=(64,50,30,1) : '1' positive mode</p>	<pre>Write_AT_Command("AT99=(64,50,30,1)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

0x9a	Draw a tip leftward Triangle	1. Send <b>0x9a</b> 2. Send the X coordinate of the tip 3. Send the Y coordinate of the tip 4. Send the width of the tip to the right 5. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 6. Wait until receive a module available byte ('E') from ezDisplay 7. Wait 2ms, but NO need for OLED.	<pre>void Draw_Triangle_Left_Ward( int X0_Pos, int Y0_Pos, int width, int positive ) {   Serial.write(<b>0x9a</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(width);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT9a=(X position,Y position,Width, <b>0~255</b> ) *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT9a=(16,32,30,1) : '1' positive mode	<pre>Write_AT_Command("AT9a=(16,32,30,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x9b	Draw a filled tip leftward Triangle	1. Send <b>0x9b</b> 2. Send the X coordinate of the tip 3. Send the Y coordinate of the tip 4. Send the width of the tip to the right 5. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 6. Wait until receive a module available byte ('E') from ezDisplay 7. Wait 2ms, but NO need for OLED.	<pre>void Draw_Filled_Triangle_Left_Ward( int X0_Pos, int Y0_Pos, int width, int positive ) {   Serial.write(<b>0x9b</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(width);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT9b=(X position,Y position,Width, <b>0~255</b> ) *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT9b=(16,32,30,1) : '1' positive mode	<pre>Write_AT_Command("AT9b=(16,32,30,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x9c	Draw a tip rightward Triangle	1. Send <b>0x9c</b> 2. Send the X coordinate of the tip 3. Send the Y coordinate of the tip 4. Send the width of the tip to the left 5. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 6. Wait until receive a module available byte ('E') from ezDisplay 7. Wait 2ms, but NO need for OLED.	<pre>void Draw_Triangle_Right_Ward( int X0_Pos, int Y0_Pos, int width, int positive ) {   Serial.write(<b>0x9c</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(width);   Serial.write(positive); /* Send 0 or 1 */   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT9c=(X position,Y position,Width, <b>0~255</b> ) *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT9c=(120,32,30,1) : '1' positive mode	<pre>Write_AT_Command("AT9c=(120,32,30,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0x9d	Draw a filled tip rightward Triangle	1. Send <b>0x9d</b> 2. Send the X coordinate of the tip 3. Send the Y coordinate of the tip 4. Send the width of the tip to the left 5. Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode 6. Wait until receive a module available byte ('E') from ezDisplay 7. Wait 2ms, but NO need for OLED.	<pre>void Draw_Filled_Triangle_Right_Ward( int X0_Pos, int Y0_Pos, int width, int positive ) {   Serial.write(<b>0x9d</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(width);   Serial.write(positive);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT9d=(X position,Y position,Width, <b>0~255</b> ) *0~255: Send <b>0 or 1</b> 1: Positive Mode 0: Negative Mode  2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT9d=(120,32,30,1) : '1' positive mode	<pre>Write_AT_Command("AT9d=(120,32,30,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

<b>0x9e</b>	Set a pixel for positive display (show pixel)	1. Send <b>0x9e</b> 2. Send the X coordinate of the pixel 3. Send the Y coordinate of the pixel 4. Wait until receive a module available byte ('E') from ezDisplay 5. Wait 2ms, but NO need for OLED.	<pre>void Set_Pixel( int X0_Pos, int Y0_Pos) {   Serial.write(<b>0x9e</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT9e=(X position,Y position) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT9e=(120,32)	<pre>Write_AT_Command("AT9e=(120,32)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0x9f</b>	Set a pixel for negative display (clear pixel)	1. Send <b>0x9f</b> 2. Send the X coordinate of the pixel 3. Send the Y coordinate of the pixel 4. Wait until receive a module available byte ('E') from ezDisplay 5. Wait 2ms, but NO need for OLED.	<pre>void Clear_Pixel( int X0_Pos, int Y0_Pos) {   Serial.write(<b>0x9f</b>);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. AT9f=(X position,Y position) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> AT9f=(120,32)	<pre>Write_AT_Command("AT9f=(120,32)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa0</b>	Display image row by row Up Ward	1. Send <b>0xa0</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Display_Row_By_Row_Up_Ward( int Speed) {   Serial.write(<b>0xa0</b>);   Serial.write(speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa0=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa0=(20)	<pre>Write_AT_Command("ATa0=(20)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa1</b>	Display image row by row Down Ward	1. Send <b>0xa1</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Display_Row_By_Row_Down_Ward( int speed) {   Serial.write(<b>0xa1</b>);   Serial.write(speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa1=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa1=(20)	<pre>Write_AT_Command("ATa1=(20)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa2</b>	Display image column by column Left Ward	1. Send <b>0xa2</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Display_Column_By_Column_Left_Ward( int speed) {   Serial.write(<b>0xa2</b>);   Serial.write(speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa2=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa2=(20)	<pre>Write_AT_Command("ATa2=(20)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

<b>0xa3</b>	Display image column by column Right Ward	1. Send <b>0xa3</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Display_Column_By_Column_Right_Ward( int Speed) {   Serial.write(<b>0xa3</b>);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa3=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa3=(20)	<pre>Write_AT_Command("ATa3=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa4</b>	Erase image row by row Up Ward	1. Send <b>0xa4</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Erase_Row_By_Row_Up_Ward( int Speed) {   Serial.write(<b>0xa4</b>);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa4=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa4=(20)	<pre>Write_AT_Command("ATa4=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa5</b>	Erase image row by row Down Ward	1. Send <b>0xa5</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Erase_Row_By_Row_Down_Ward( int Speed) {   Serial.write(<b>0xa5</b>);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa5=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa5=(20)	<pre>Write_AT_Command("ATa5=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa6</b>	Erase image column by column Left Ward	1. Send <b>0xa6</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Erase_Column_By_Column_Left_Ward( int Speed) {   Serial.write(<b>0xa6</b>);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa6=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa6=(20)	<pre>Write_AT_Command("ATa6=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa7</b>	Erase image column by column Right Ward	1. Send <b>0xa7</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Erase_Column_By_Column_Right_Ward( int Speed) {   Serial.write(<b>0xa7</b>);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa7=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa7=(20)	<pre>Write_AT_Command("ATa7=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

<b>0xa8</b>	Display image Inside Out	1. Send <b>0xa8</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Display_Inside_Out( int Speed) {   Serial.write(0xa8);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa8=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa8=(20)	<pre>Write_AT_Command("ATa8=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xa9</b>	Display image Outside In	1. Send <b>0xa9</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Display_Outside_In( int Speed) {   Serial.write(0xa9);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATa9=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATa9=(20)	<pre>Write_AT_Command("ATa9=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xaa</b>	Erase image Inside Out	1. Send <b>0xaa</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Erase_Inside_Out( int Speed) {   Serial.write(0xaa);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATaa=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATaa=(20)	<pre>Write_AT_Command("ATaa=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xab</b>	Erase image Outside In	1. Send <b>0xab</b> 2. Send the speed (typical time is 20ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Erase_Outside_In( int Speed) {   Serial.write(0xab);   Serial.write(Speed);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATab=(Speed in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATab=(20)	<pre>Write_AT_Command("ATAB=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xc0</b>	Build user define 8X8 pattern bitmap into OLED's display memory <i>(Maximun number of user define 8X8 pattern is 10 (0~9))</i>	1. Send <b>0xc0</b> 2. Send the pattern ID 3. Sent the bitmap of this pattern ID 4. Wait until receive a module available byte ('E') from ezDisplay 5. Wait 2ms, but NO need for OLED.	<pre>void Build_User_Define_8X8_Pattern(){   Serial.write(0xc0);   Serial.write(0);   for (i = 0; i &lt; 8; i++)   {     Serial.write(User_Define_8X8_pattern_ID[i]);   }   while (Serial.read() !='E') {}   delay(2); }</pre>	N/A	N/A

<b>0xc1</b>	Build user define 8X16 pattern bitmap into OLED's display memory <b>(Maximun number of user define 8X16 pattern is 10 (0~9))</b>  (not available for 96x8 RGB LED)	1. Send <b>0xc1</b> 2. Send the pattern ID 3. Sent the bitmap of this pattern ID 4. Wait until receive a module available byte ('E') from ezDisplay 5. Wait 2ms, but NO need for OLED.	void Build_User_Define_8X16_Pattern() { Serial.write( <b>0xc1</b> ); Serial.write(0); for (i = 0; i < 16; i++) { Serial.write(User_Define_8X16_pattern_ID[i]); } while (Serial.read() !='E') {}; delay(2); }	N/A	N/A
<b>0xc2</b>	Build user define 16X16 pattern bitmap into OLED's display memory <b>(Maximun number of user define 16X16 pattern is 10 (0~9))</b>  (not available for 96x8 RGB LED)	1. Send <b>0xc2</b> 2. Send the pattern ID 3. Sent the bitmap of this pattern ID 4. Wait until receive a module available byte ('E') from ezDisplay 5. Wait 2ms, but NO need for OLED.	void Build_User_Define_16X16_Pattern() { Serial.write( <b>0xc2</b> ); Serial.write(0); for (i = 0; i < 32; i++) { Serial.write(User_Define_16X16_pattern_ID[i]); } while (Serial.read() !='E') {}; delay(2); }	N/A	N/A
<b>0xc3</b>	Build user define 32X32 pattern bitmap into OLED's display memory <b>(Maximun number of user define 32X32 pattern is 5 (0~4))</b>  (not available for 96x8 RGB LED)	1. Send <b>0xc3</b> 2. Send the pattern ID 3. Sent the bitmap of this pattern ID 4. Wait until receive a module available byte ('E') from ezDisplay 5. Wait 2ms, but NO need for OLED.	void Build_User_Define_32X32_Pattern() { Serial.write( <b>0xc3</b> ); Serial.write(0); for (i = 0; i < 128; i++) { Serial.write(User_Define_32X32_pattern_ID[i]); } while (Serial.read() !='E') {}; delay(2); }	N/A	N/A
<b>0xc4</b>	Display a user define 8X8 pattern <b>(Build user define 8X8 pattern function needs to run before this function)</b>	1. Send <b>0xc4</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_User_Define_8X8_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int negative, int Pattern_ID) { Serial.write( <b>0xc4</b> ); Serial.write(Up_Left_Xpos); Serial.write(Up_Left_Ypos); Serial.write(Pattern_ID); while (Serial.read() !='E') {}; delay(2); }	N/A	N/A
<b>0xc5</b>	Display a user define 8X16 pattern <b>(Build user define 8X16 pattern function needs to run before this function)</b>  (not available for 96x8 RGB LED)	1. Send <b>0xc5</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_User_Define_8X16_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int negative, int Pattern_ID) { Serial.write( <b>0xc5</b> ); Serial.write(Up_Left_Xpos); Serial.write(Up_Left_Ypos); Serial.write(Pattern_ID); while (Serial.read() !='E') {}; delay(2); }	N/A	N/A

<b>0xc6</b>	Display a user define 16X16 pattern <i>(Build user define 16X16 pattern function needs to run before this function)</i>  (not available for 96x8 RGB LED)	1. Send <b>0xc6</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_User_Define_16X16_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int negative, int Pattern_ID){ Serial.write( <b>0xc6</b> ); Serial.write(Up_Left_Xpos); Serial.write(Up_Left_Ypos); Serial.write(Pattern_ID); while (Serial.read() !='E') {} delay(2); }	N/A	N/A
<b>0xc7</b>	Display a user define 32X32 pattern <i>(Build user define 32X32 pattern function needs to run before this function)</i>  (not available for 96x8 RGB LED)	1. Send <b>0xc7</b> 2. Send the Up Left X coordinate of pattern 3. Send the Up Left Y coordinate of pattern 4. Send the ID of pattern 5. Wait until receive a module available byte ('E') from ezDisplay 6. Wait 2ms, but NO need for OLED.	void Write_User_Define_32X32_Pattern( int Up_Left_Xpos, int Up_Left_Ypos, int negative, int Pattern_ID){ Serial.write( <b>0xc7</b> ); Serial.write(Up_Left_Xpos); Serial.write(Up_Left_Ypos); Serial.write(Pattern_ID); while (Serial.read() !='E') {} delay(2); }	N/A	N/A
<b>0xd0</b>	Clear display	1. Send <b>0xd0</b> 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms, but NO need for OLED.	void Clear_Display_Momery( void) { Serial.write( <b>0xd0</b> ); while (Serial.read() !='E') {} delay(2); }	1. ATd0=() 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd0=()	Write_AT_Command("ATd0=()")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
<b>0xd1</b>	Show the data in the display memory	1. Send <b>0xd1</b> 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms, but NO need for OLED.	void Show_Display_Momery( void){ Serial.write( <b>0xd1</b> ); while (Serial.read() !='E') {} delay(2); }	1. ATd1=() 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd1=()	Write_AT_Command("ATd1=()")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
<b>0xd2</b>	Scroll the whole display upward	1. Send <b>0xd2</b> 2. Send the shift time (typical time is 70ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	void Scroll_Whole_Display_Memory_Up( int shift time){ Serial.write( <b>0xd2</b> ); Serial.write(shift time); while (Serial.read() !='E') {} delay(2); }	1. ATd2=(shift time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd2=(20)	Write_AT_Command("ATd2=(20)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
<b>0xd3</b>	Scroll the whole display downward	1. Send <b>0xd3</b> 2. Send the shift time (typical time is 70ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	void Scroll_Whole_Display_Memory_Down( int shift time){ Serial.write( <b>0xd3</b> ); Serial.write(shift time); while (Serial.read() !='E') {} delay(2); }	1. ATd3=(shift time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd3=(20)	Write_AT_Command("ATd3=(20)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }

<b>0xd4</b>	Scroll the whole display leftward	1. Send <b>0xd4</b> 2. Send the shift time (typical time is 70ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Scroll_Whole_Display_Memory_Left( int shift time) {   Serial.write(0xd4);   Serial.write(shift time);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATd4=(shift time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd4=(20)	<pre>Write_AT_Command("ATd4=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xd5</b>	Scroll the whole display rightward	1. Send <b>0xd5</b> 2. Send the shift time (typical time is 70ms) 3. Wait until receive a module available byte ('E') from ezDisplay 4. Wait 2ms, but NO need for OLED.	<pre>void Scroll_Whole_Display_Memory_Right( int shift time) {   Serial.write(0xd5);   Serial.write(shift time);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATd5=(shift time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd5=(20)	<pre>Write_AT_Command("ATd5=(20)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xd6</b>	Scroll the section display upward	1. Send <b>0xd6</b> 2. Send the X coordinate of up left corner 3. Send the Y coordinate of up left corner 4. Send the X coordinate of bottom right corner 5. Send the Y coordinate of bottom right corner 6. Send the shift time (typical time is 20ms) 7. Wait until receive a module available byte ('E') from ezDisplay 8. Wait 2ms, but NO need for OLED.	<pre>void Scroll_Section_Display_Memory_Up( int X0_Pos, int Y0_Pos, int X1_Pos, int Y1_Pos, int shift time) {   Serial.write(0xd6);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(X1_Pos);   Serial.write(Y1_Pos);   Serial.write(shift time);   while (Serial.read() !='E') {};   delay(2); }</pre>	1. ATd6=(X0 position,Y0 position,X1 position,Y1 position, shift time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd6=(10,16,120,50,1)	<pre>Write_AT_Command("ATd6=(10,16,120,50,1)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
<b>0xd7</b>	Scroll the section display downward	1. Send <b>0xd7</b> 2. Send the X coordinate of up left corner 3. Send the Y coordinate of up left corner 4. Send the X coordinate of bottom right corner 5. Send the Y coordinate of bottom right corner 6. Send the shift time (typical time is 70ms) 7. Wait until receive a module available byte ('E') from ezDisplay 8. Wait 2ms, but NO need for OLED.	<pre>void Scroll_Section_Display_Memory_Down( int X0_Pos, int Y0_Pos, int X1_Pos, int Y1_Pos, int shift time) {   Serial.write(0xd7);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(X1_Pos);   Serial.write(Y1_Pos);   Serial.write(shift time);   while (Serial.read() !='E') {};   delay(2); }</pre>	1. ATd7=(X0 position,Y0 position,X1 position,Y1 position, shift time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATd7=(10,16,120,50,1)	<pre>Write_AT_Command("ATd7=(10,16,120,50,1)"  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

0xd8	Scroll the section display leftward	1. Send <b>0xd8</b> 2. Send the X coordinate of up left corner 3. Send the Y coordinate of up left corner 4. Send the X coordinate of bottom right corner 5. Send the Y coordinate of bottom right corner 6. Send the shift time (typical time is 20ms) 7. Wait until receive a module available byte ('E') from ezDisplay 8. Wait 2ms, but NO need for OLED.	<pre>void Scroll_Section_Display_Memory_Left( int X0_Pos, int Y0_Pos, int X1_Pos, int Y1_Pos, int shift time) {   Serial.write(0xd8);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(X1_Pos);   Serial.write(Y1_Pos);   Serial.write(shift time);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATd8=(X0 position,Y0 position,X1 position,Y1 position, shif time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms <b>&lt;example&gt;</b> ATd8=(10,16,120,50,1)	<pre>Write_AT_Command("ATd8=(10,16,120,50,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0xd9	Scroll the section display rightward	1. Send <b>0xd9</b> 2. Send the X coordinate of up left corner 3. Send the Y coordinate of up left corner 4. Send the X coordinate of bottom right corner 5. Send the Y coordinate of bottom right corner 6. Send the shift time (typical time is 70ms) 7. Wait until receive a module available byte ('E') from ezDisplay 8. Wait 2ms, but NO need for OLED.	<pre>void Scroll_Section_Display_Memory_Right( int X0_Pos, int Y0_Pos, int X1_Pos, int Y1_Pos, int shift time) {   Serial.write(0xd9);   Serial.write(X0_Pos);   Serial.write(Y0_Pos);   Serial.write(X1_Pos);   Serial.write(Y1_Pos);   Serial.write(shift time);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATd9=(X0 position,Y0 position,X1 position,Y1 position, shif time in ms) 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms <b>&lt;example&gt;</b> ATd9=(10,16,120,50,1)	<pre>Write_AT_Command("ATd9=(10,16,120,50,1)  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0xed	Set default Background	1. Send <b>0xed</b> 2. Send the backlight code 1 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms, but NO need for OLED.	<pre>void Display_Off( void){   Serial.write(0xed);   Serial.write(1);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATed=(Backlight 0~255) <b>*Backlight 0~7:</b> <for LCM with RGB backlight > '0' : none '1' : red color '2' : green color '3' : blue color '4' : yellow color '5' : purple color '6' : cyan color '7' : white color <for LCM with White backlight > '0' : none '1~7' : white color 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms <b>&lt;example&gt;</b> ATed=(1) : '7' white color	<pre>Write_AT_Command("ATed=(7)")  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>
0xf0	Turn display Off	1. Send <b>0xf0</b> 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms, but NO need for OLED.	<pre>void Display_Off( void){   Serial.write(0xf0);   while (Serial.read() !='E') {}   delay(2); }</pre>	1. ATf0=() 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms <b>&lt;example&gt;</b> ATf0=()	<pre>Write_AT_Command("ATf0=()  void Write_AT_Command(char *string) {   Serial.print(string);   while (Serial.read() != 'E') {}   delay(2); }</pre>

<b>0xf1</b>	Turn display On  1. Send <b>0xf1</b> 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms, but NO need for OLED.	void Display_On(void){ Serial.write( <b>0xf1</b> ); while (Serial.read() !='E') {} delay(2); }	1. <b>ATf1=()</b> 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATf1=()	Write_AT_Command("ATf1=()")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }
<b>0xf6</b>	Change Instruction mode (  0 for HEX command, 1 for AT command )  1. Send <b>0xf6</b> 2. Send instruction mode 1 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms, but NO need for OLED.	int Change_Instruction_Mode(int mode) { Serial.write( <b>0xf6</b> ); Serial.write(1); while (Serial.read() !='E') {} delay(2); }	1. <b>ATf6=(instruction mode)</b> 2. Wait until receive a module available byte ('E') from ezDisplay 3. Wait 2ms  <b>&lt;example&gt;</b> ATf6=(0)	Write_AT_Command("ATf6=(0)")  void Write_AT_Command(char *string) { Serial.print(string); while (Serial.read() != 'E') {} delay(2); }