

# e-Gizmo 4x4 Keypad



Technical Manual Rev 1r0

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**e-Gizmo 4x4 Keypad** has 16 key keypad module configured in 4x4 array readily connects with any of eGizmo EZkonnek equipped microcontroller boards. Can be easily configured to connect with other controllers as well.

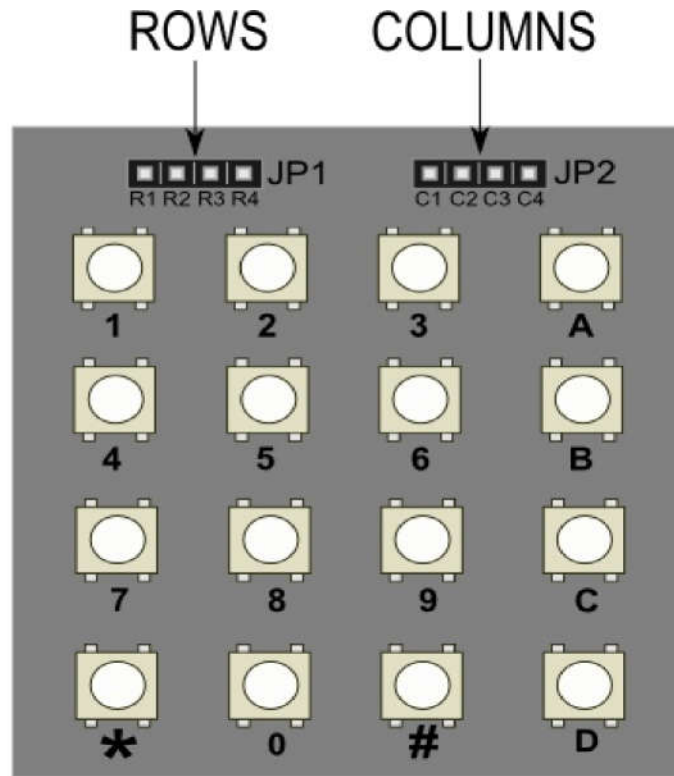
## **General Specifications:**

**Input Read:** Digital

**Rows:** 4 rows **Columns:** 4 columns

**Type of keypad:** Custom

**Dimensions:** 72mm x 62mm



		COLUMNS			
ROWS		1	2	3	A
		4	5	6	B
		7	8	9	C
		*	0	#	D

Figure 1. Major Parts

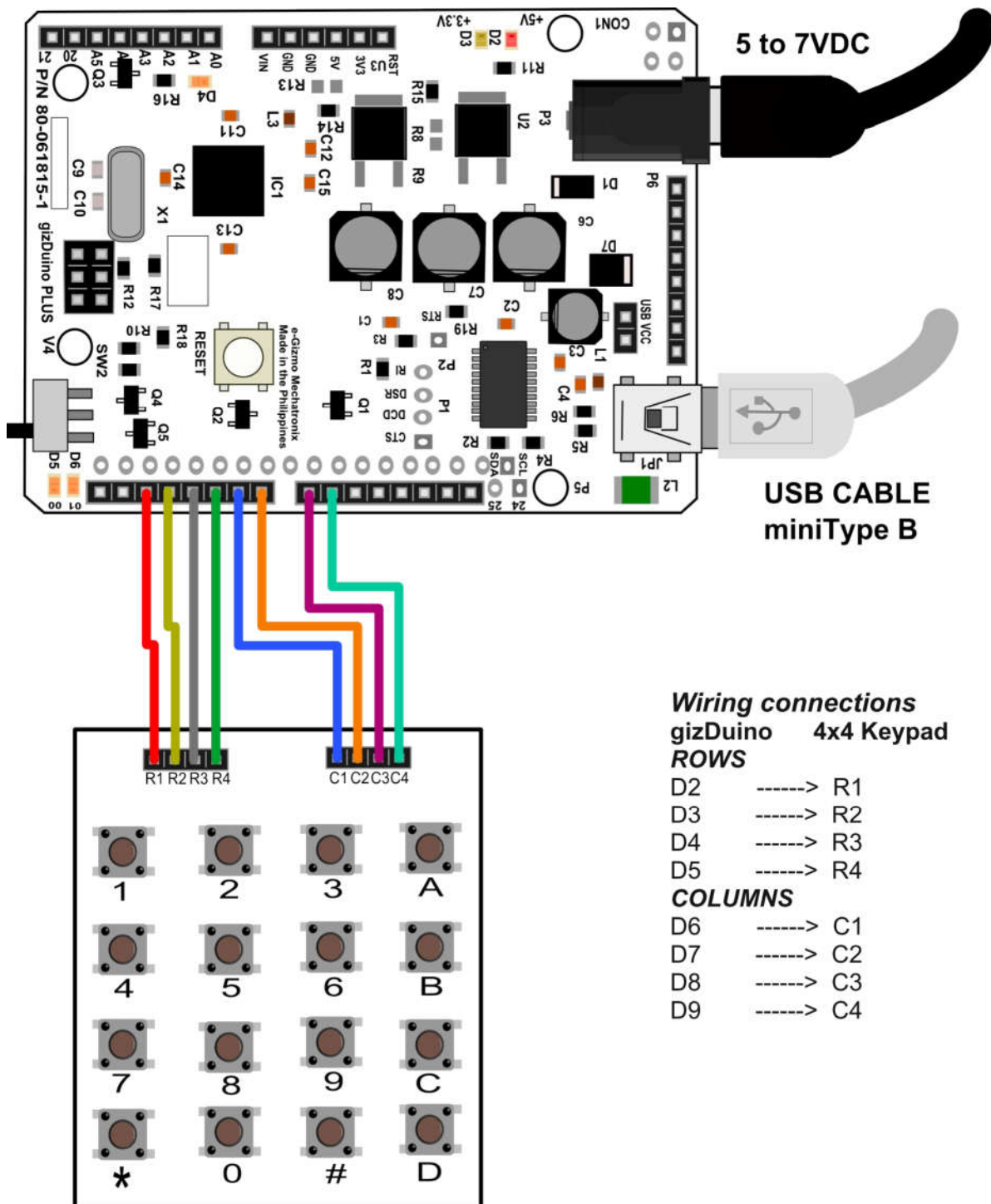


Figure 2. Sample connections

Open the 4x4 Keypad sample code.ino  
Upload it to gizDuino PLUS.

```
/*  
  e-Gizmo 4x4 Keypad Sample code  
  
  Displaying the Numbers and Letters assigned  
  from the keypad using Serial Monitor.  
  Add the Keypad Library.  
  
  Wiring Connections:  
  gizDuino 4x4 Keypad  
  D2   - R1  }  
  D3   - R2  } ROWS  
  D4   - R3  }  
  D5   - R4  }  
  D6   - C1  }  
  D7   - C2  } COLUMNS  
  D8   - C3  }  
  D9   - C4  }  
  
  Modified by  
  e-Gizmo Mechatronics Central  
  http://www.e-gizmo.com  
  May 24,2017  
  
*/  
#include <Keypad.h>  
  
const byte ROWS = 4; //four rows  
const byte COLS = 4; //four columns  
//define the symbols on the buttons of the keypads  
char hexaKeys[ROWS][COLS] = {  
  {'1','2','3','A'},  
  {'4','5','6','B'},  
  {'7','8','9','C'},  
  {'*','0','#','D'}  
};
```

## Sample Codes

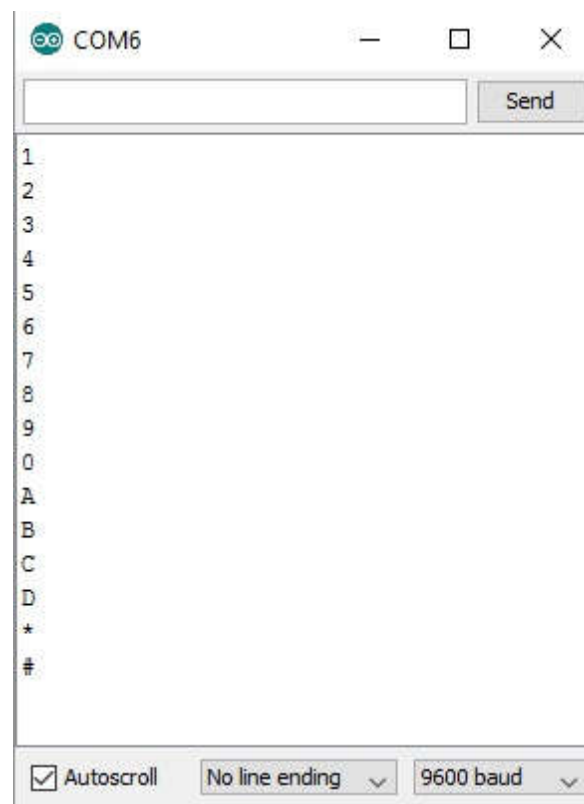
```
byte rowPins[ROWS] = {2,3, 4, 5}; //connect to the row pinouts of the keypad
byte colPins[COLS] = {6, 7, 8, 9}; //connect to the column pinouts of the
keypad

//initialize an instance of class NewKeypad
Keypad customKeypad = Keypad( makeKeymap(hexaKeys), rowPins,
colPins, ROWS, COLS);

void setup(){
  Serial.begin(9600);
}

void loop(){
  char customKey = customKeypad.getKey();

  if (customKey){
    Serial.println(customKey);
  }
}
```



**Figure 3. Serial Monitor**