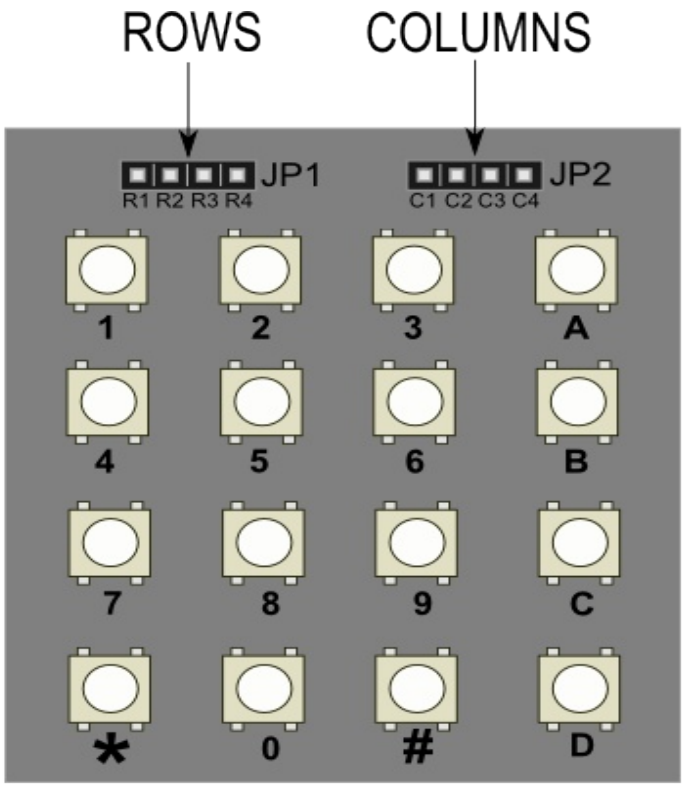
e-Gizmo 4x4 Keypad

Technical Manual Rev 1r0

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.

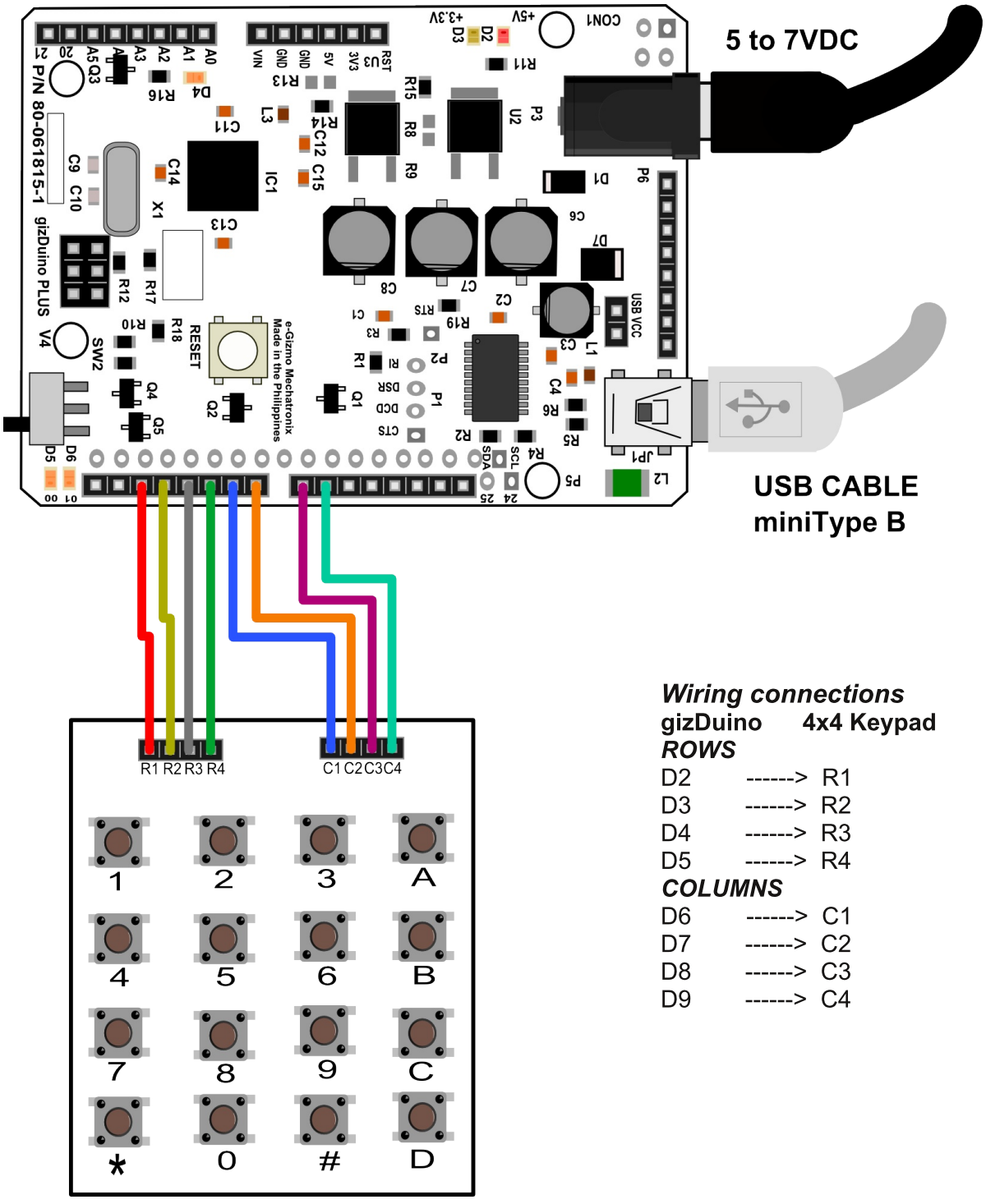
General Specifications:

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



Wiring connections

gizDuino 4x4 Keypad

ROWS

D2 ------> R1
D3 ------> R2
D4 ------> R3
D5 ------> R4

COLUMNS

D6 ------> C1
D7 ------> C2
D8 ------> C3
D9 ------> C4

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 Mechatronix 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 cymbols on the buttons of the keypads
char hexaKeys[ROWS][COLS] = {
  {'1','2','3','A'},
  {'4','5','6','B'},
  {'7','8','9','C'},
  {'*','0','#','D'}
};
```

```
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);
  }
}
```

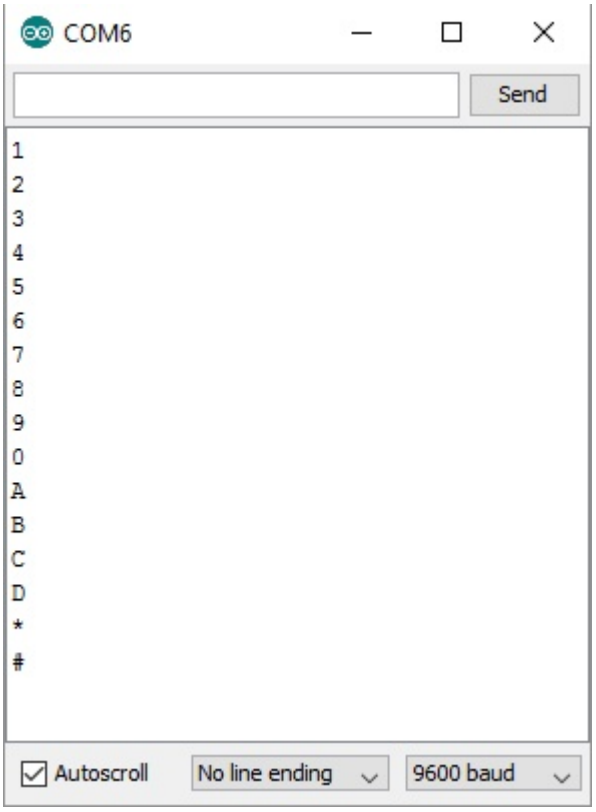


Figure 3. Serial Monitor