**Assembly List**

| **Label** | **Part Type** | **Properties** |
| --- | --- | --- |
| LCD1 | LCD screen | type Character; pins 16 |
| LED1 | Red (633nm) LED | leg yes; package 5 mm [THT]; color Red (633nm) |
| LED2 | Green (555nm) LED | leg yes; package 5 mm [THT]; color Green (555nm) |
| LED3 | Yellow (585nm) LED | leg yes; package 5 mm [THT]; color Yellow (585nm) |
| LED4 | Blue (525nm) LED | leg yes; package 5 mm [THT]; color Blue (525nm) |
| Part1 | Arduino Yun | type Arduino Yun; variant rev 1 |
| R1 | Trimmer Potentiometer | type Trimmer Potentiometer; package THT; maximum resistance 10kΩ; size Trimmer - 12mm; track Linear |
| R2 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R3 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R4 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R5 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R6 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R7 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R8 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R9 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| R10 | 220Ω Resistor | bands 4; tolerance ±5%; package THT; resistance 220Ω; pin spacing 400 mil |
| R11 | 220Ω Resistor | bands 4; tolerance ±5%; package THT; resistance 220Ω; pin spacing 400 mil |
| R12 | 220Ω Resistor | bands 4; tolerance ±5%; package THT; resistance 220Ω; pin spacing 400 mil |
| R13 | 220Ω Resistor | bands 4; tolerance ±5%; package THT; resistance 220Ω; pin spacing 400 mil |
| R14 | 220Ω Resistor | bands 4; tolerance ±5%; package THT; resistance 220Ω; pin spacing 400 mil |
| S1 | Pushbutton | package [THT] |
| S2 | Pushbutton | package [THT] |
| S3 | Pushbutton | package [THT] |
| S4 | Pushbutton | package [THT] |
| S5 | Pushbutton | package [THT] |
| S6 | Pushbutton | package [THT] |
| S7 | Pushbutton | package [THT] |
| S8 | Pushbutton | package [THT] |

**Shopping List**

| **Amount** | **Part Type** | **Properties** |
| --- | --- | --- |
| 1 | LCD screen | type Character; pins 16 |
| 1 | Red (633nm) LED | leg yes; package 5 mm [THT]; color Red (633nm) |
| 1 | Green (555nm) LED | leg yes; package 5 mm [THT]; color Green (555nm) |
| 1 | Yellow (585nm) LED | leg yes; package 5 mm [THT]; color Yellow (585nm) |
| 1 | Blue (525nm) LED | leg yes; package 5 mm [THT]; color Blue (525nm) |
| 1 | Arduino Yun | type Arduino Yun; variant rev 1 |
| 1 | Trimmer Potentiometer | type Trimmer Potentiometer; package THT; maximum resistance 10kΩ; size Trimmer - 12mm; track Linear |
| 8 | 10kΩ Resistor | bands 4; tolerance ±5%; package THT; resistance 10kΩ; pin spacing 400 mil |
| 5 | 220Ω Resistor | bands 4; tolerance ±5%; package THT; resistance 220Ω; pin spacing 400 mil |
| 8 | Pushbutton | package [THT] |